Acer X221W
Service Guide

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen
Note	Gives bits and pieces of additional information related to the current topic.
Warning	Alerts you to any damage that might result from doing or not doing specific actions.
Caution	Gives precautionary measures to avoid possible hardware or software problems.
Important	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. this Service Guide provides you with all technical information relating to the BASICCONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. please not WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide, for ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and Service of customer machines.

WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,
Which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibility of the user to correct such interference.

As an ENERGY STAR® Partner our company has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

WARNING:

To prevent fire or chock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, Swimming pool or in a wet basement.

- Do not place the monitor on an unstable trolley, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a trolley or stand recommended by the manufacture or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacture and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet area provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC, Min. 3.5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (output 12V DC) which have UL,CSA listed license

SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness in the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

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Chapter 1

Monitor Feature

LCD Panel	Driving system	TFT Color LCD
	Size	22"
	Pixel pitch	0.282(H) * 0.282 (V)mm
	Viewable angle	160(H) x 170 (V) degree
	Brightness	panel: 300 cd/m2(typ)
	Contrast Ratio	CHIMEI: 700:1 (typ) AUO: 1000:1(typ.)
	Response time	5ms (Tr+Tf)
Input	Video	R, G, B Analog, DVI box (optional)
	Separate Sync	H/V TTL
	H-Frequency	31-81KHZ
	V-Frequency	56-75HZ
Display Color		16.7 million Colors
Maximum Dot Clock ®		146MHz
Max Resolution		1680x1050 @60HZ
Plug & Play		VESA FPMPMI
EPA ENERGY STAY	ON Mode	<50W
	OFF Mode	<1W
Audio output		Rated Power 2.0W rms(Per channel)
Input Connector		D-Sub 15 pin, DVI connector (on DVI box)
Input Video Signal		Analog : 0.7Vp-p,75OHM
Screen Size (Active)		Horizontal : 473.76mm Vertical : 296.1mm
Power Source		90~264 Vac, 47~63HZ
Environmental Considerations		Operating Temp: 5 to 40 degree ; Storage Temp: -20 to 60 degree ; Operating Humidity: 20% to 80%
Weight (N.W.)		5.2kg
Dimension		513.8(W) x 417.7(H) x 203.8(D) mm

External Controls :	Switch	* Power Switch * MENU / EXIT * ^ / Volume * v / Volume * AUTO / ENTER
		* Contrast/brightness * Focus * Clock * H.Position * W.Position * Language * OSD Color temperature * OSD Position & Timeout * Auto Config * Input * Information * Reset * Exit
Regulatory Compliance		cUL, FCC, TUV, CE, TCO03.

Timings

The product has 34 memory modes in total. 26 modes are preset and 8 modes are user definable.

MODE NO.	1	2	3	4
RESOLUTION	720 x 400	640 x 480	640x480	640 x 480
Dot clock(MHz)	28.321	25.175	30.24	31.5
f h	31.469kHz	31.469kHz	35.0kHz	37.861kHz
H-Total (us)	31.78(900dots)	31.778 (800 dots)	28.571(864 dots)	26.413 (832 dots)
H-Sync (us)	3.813(108dots)	3.813 (96 dots)	2.116 (64 dots)	1.270(40 dots)
H-B-P (us)	1.907(54dots)	1.907 (48 dots)	3.175 (96 dots)	4.064(128 dots)
H-Active (us)	25.42(720dots)	25.422 (640 dots)	21.164 (640 dots)	20.317(640 dots)
H-F-P (us)	0.636(18dots)	0.636 (16 dots)	2.116 (64 dots)	0.762(24 dots)
f v	70Hz(70.087)	60Hz (59.940)	66.7 HZ (66.667)	72.809Hz
V-Total (ms)	14.27(449 lines)	16.683 (525 lines)	15.000 (525 lines)	13.735(520 lines)
V-Sync (ms)	0.064(2 lines)	0.064 (2 lines)	0.086 (3 lines)	0.079(3 lines)
V-B-P (ms)	1.112(35 lines)	1.049 (33 lines)	1.114 (39 lines)	0.739(28 lines)
V-Active (ms)	12.71(400 lines)	15.253 (480 lines)	13.714 (480 lines)	12.678(480 lines)
V-F-P (ms)	0.384(12 lines)	0.317 (10 lines)	0.086 (3 lines)	0.237(9 lines)
SYNC. H/V	-/+	- / -	+/+	-/-
POLARITY			Or -/-	
SEP . SYNC	Y	Y	Y	Y

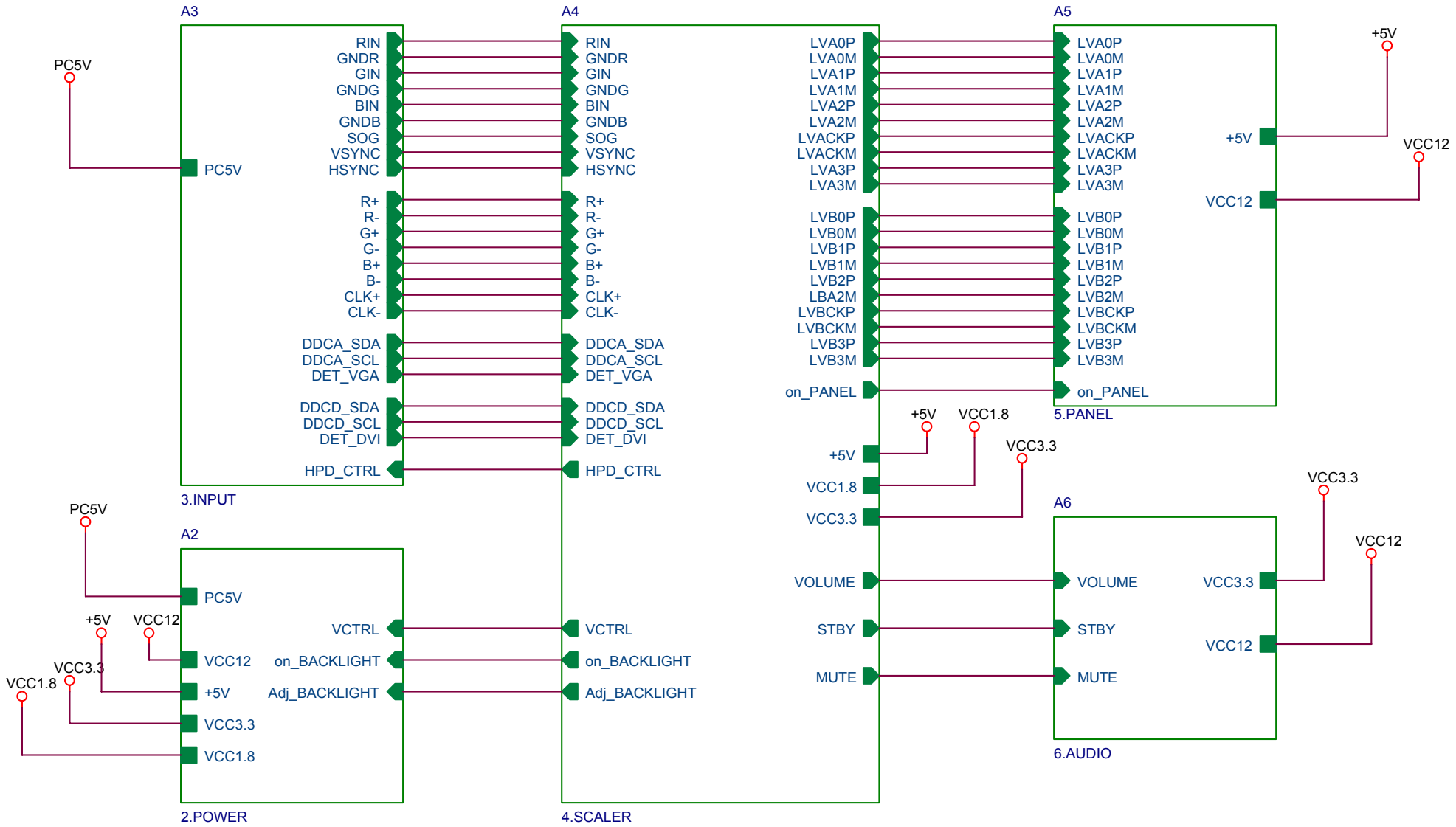
MODE NO.	5	6	7	8
RESOLUTION	640 x 480	800 x 600	800 x 600	800 x 600
Dot clock(MHz)	31.5	36	40	49.5
f h	37.500kHz	35.16kHz	37.879kHz	46.875kHz
H-Total (us)	26.667(840 dots)	28.44(1024 dots)	26.40 (1056 dots)	21.333 (1056dots)
H-Sync (us)	2.032 (64 dots)	2.00(72 dots)	3.200 (128 dots)	1.616 (80 dots)
H-B-P (us)	3.810 (120 dots)	3.56(128 dots)	2.200 (88 dots)	3.232 (160 dots)
H-Active (us)	20.317 (640 dots)	22.22(800 dots)	20.00 (800 dots)	16.162 (800 dots)
H-F-P (us)	0.508 (16 dots)	0.67(24 dots)	1.000 (40 dots)	0.323 (16 dots)
f v	75Hz (75)	56.25	60Hz (60.316)	75Hz (75.000)
V-Total (ms)	13.333 (500 lines)	17.78(625 lines)	16.58 (628 lines)	13.333 (625lines)
V-Sync (ms)	0.080 (3 lines)	0.06(2 lines)	0.106 (4 lines)	0.064 (3 lines)
V-B-P (ms)	0.427 (16 lines)	0.63(22 lines)	0.607 (23 lines)	0.448 (21 lines)
V-Active (ms)	12.80 (480 lines)	17.07(600 lines)	15.84 (600 lines)	12.80 (600lines)
V-F-P (ms)	0.027 (1 line)	0.03(1 line)	0.026 (1 line)	0.021 (1 line)
SYNC. H/V	- / -	+/+	+ / +	+ / +
POLARITY				
SEP . SYNC	Y	Y	Y	Y
MODE NO.	**9**	**10**	**11**	**12**
RESOLUTION	800 x 600	832 x 624	1024 x 768	1024 x 768
Dot clock(MHz)	50	57.283	65	75
f h	48.077kHz	49.72kHz	48.363kHz	56.48kHz
H-Total (us)	20.80 (1040dots)	20.11(1152 dots)	20.677(1344 dots)	17.71(1328 dots)
H-Sync (us)	2.400 (120 dots)	1.12(64 dots)	2.092(136 dots)	1.81(136 dots)
H-B-P (us)	1.280 (64 dots)	3.91(224 dots)	2.462(160 dots)	1.92(144 dots)
H-Active (us)	16.00 (800 dots)	14.52(832 dots)	15.754(1024 dots)	13.65(1024 dots)
H-F-P (us)	1.120 (56 dots)	0.56(32 dots)	0.369(24 dots)	0.32(24 dots)
f v	72Hz (72.188)	74.55Hz	60.004Hz	70.07Hz
V-Total (ms)	13.85 (666 lines)	13.41(667 lines)	16.666(806 lines)	14.27(806 lines)
V-Sync (ms)	0.125 (6 lines)	0.06(3 lines)	0.124(6 lines)	0.11(6 lines)
V-B-P (ms)	0.478 (23 lines)	0.78(39 lines)	0.600(29 lines)	0.51(29 lines)
V-Active (ms)	12.48 (600 lines)	12.55 (624 lines)	15.880(768 lines)	13.60(768 lines)
V-F-P (ms)	0.770 (37 line)	0.02(1 line)	0.062(3 lines)	0.05(3 lines)
SYNC. H/V	+ / +	+/+	-/-	-/-
POLARITY				
SEP . SYNC	Y2	Y	Y	Y

MODE NO.	13	14	15	16
RESOLUTION	1024 x 768	1280 x 1024	1280 x 1024	1152 x 864
Dot clock(MHz)	78.75	108	135	108
f h	60.02kHz	63.981kHz	79.976KHz	67.5 KHz
H-Total (us)	16.66(1312 dots)	15.630 (1688 dots)	12.504 (1688 dots)	14.815(1600 dots)
H-Sync (us)	1.22 (96 dots)	1.037 (112 dots)	1.067 (144 dots)	1.185(128 dots)
H-B-P (us)	2.23 (176 dots)	2.296 (248 dots)	1.837 (248 dots)	2.370(256 dots)
H-Active (us)	13.00 (1024 dots)	11.852 (1280 dots)	9.481 (1280dots)	10.667(1152 dots)
H-F-P (us)	0.20 (16 dots)	0.444 (48 dots)	0.119 (16 dots)	0.593(64 dots)
f v	75.03Hz	60.020Hz	75.025 Hz	75.06 Hz
V-Total (ms)	13.33 (800 lines)	16.661 (1066 lines)	13.329 (1066 lines)	13.333(900 lines)
V-Sync (ms)	0.05 (3 lines)	0.047 (3 lines)	0.038 (3 lines)	0.044(3 lines)
V-B-P (ms)	0.47 (28 lines)	0.594 (38 lines)	0.475 (38 lines)	0.474(32 lines)
V-Active (ms)	12.80 (768 lines)	16.005 (1024 lines)	12.804(1024 lines)	12.800(864 lines)
V-F-P (ms)	0.02 (1 lines)	0.016 (1 line)	0.013 (1 lines)	0.015(1 lines)
SYNC. H/V	+/+	+/+	+/+	+/+
POLARITY				
SEP . SYNC	Y	Y	Y	Y
MODE NO.	**17**	**18**	**19**	**20**
RESOLUTION	1280 x 960	1600 x 1200	1280 x 720	1280 x 768
Dot clock(MHz)	108	162	74.481	79.5
f h	60.000 KHz	75.000 KHz	44.760KHz	47.776KHz
H-Total (us)	16.667 (1800dots)	13.333 (2160 dots)	22.341 (1664dots)	20.931 (1664dots)
H-Sync (us)	1.037 (112 dots)	1.185 (192 dots)	1.826 (136 dots)	1.61 (128 dots)
H-B-P (us)	2.889 (312 dots)	1.877 (304 dots)	2.578 (192 dots)	2.415 (192 dots)
H-Active (us)	11.852 (1280 dots)	9.877 (1600 dots)	17.186 (1280 dots)	16.101 (1280 dots)
H-F-P (us)	0.889 (96 dots)	0.395 (64 dots)	0.752 (56 dots)	0.805 (64 dots)
f v	60.00Hz	60.00 Hz	60.000Hz	59.87Hz
V-Total (ms)	16.667 (1000 lines)	16.667 (1250 lines)	16.667 (746 lines)	16.703 (798 lines)
V-Sync (ms)	0.050 (3 lines)	0.040 (3 lines)	0.067 (3 lines)	0.147 (7 lines)
V-B-P (ms)	0.600 (36 lines)	0.613 (46 lines)	0.492 (22 lines)	0.419 (20 lines)
V-Active (ms)	16.000 (960 lines)	16.000 (1200 lines)	16.086 (720 lines)	16.075 (768 lines)
V-F-P (ms)	0.017 (1 line)	0.013 (1 line)	0.022 (5 lines)	0.063 (3 lines)
SYNC. H/V	+ / +	+ / +	- / +	-/+
POLARITY				
SEP . SYNC	Y	Y	Y	Y

MODE NO.	21	22	23	24
RESOLUTION	1280 x 768	1360 x 768	1440 x 900	1440 x 900
Dot clock(MHz)	102.25	85.5	106.5	136.75
f h	60.289KHz	47.712KHz	55.935KHz	70.635KHz
H-Total (us)	16.587 (1696dots)	20.959 (1792dots)	17.878 (1904dots)	14.157 (1936dots)
H-Sync (us)	1.252 (128 dots)	1.31 (112 dots)	1.427 (152 dots)	1.112 (152 dots)
H-B-P (us)	2.034 (208 dots)	2.994 (256 dots)	2.178 (232 dots)	1.814 (248 dots)
H-Active (us)	12.518 (1280 dots)	15.906 (1360 dots)	13.521 (1440 dots)	10.53 (1440 dots)
H-F-P (us)	0.782 (80 dots)	0.749 (64 dots)	0.751 (80 dots)	0.702 (96 dots)
f v	74.893Hz	60.015Hz	59.887Hz	74.984Hz
V-Total (ms)	13.352 (805 lines)	16.662 (795 lines)	16.698 (934 lines)	13.336 (942 lines)
V-Sync (ms)	0.116 (7 lines)	0.126 (6 lines)	0.107 (6 lines)	0.085 (6 lines)
V-B-P (ms)	0.448 (27 lines)	0.377 (18 lines)	0.447 (25 lines)	0.467 (33 lines)
V-Active (ms)	12.739 (768 lines)	16.097 (768 lines)	16.09 (900 lines)	12.741 (900 lines)
V-F-P (ms)	0.05 (3 lines)	0.063 (3 lines)	0.054 (3 lines)	0.042 (3 lines)
SYNC. H/V	-/+	+ / +	-/+	-/+
POLARITY				
SEP . SYNC	Y	Y	Y	Y

MODE NO.	25	26
RESOLUTION	1680 x 1050	848 x 480
Dot clock(MHz)	146.25	33.75
f h	65.29 KHz	31.02 KHz
H-Total (us)	15.316 (2240 dots)	32.237 (1088 dots)
H-Sync (us)	1.203 (176 dots)	3.319 (112 dots)
H-B-P (us)	1.915 (280 dots)	3.319 (112 dots)
H-Active (us)	11.487 (1680 dots)	25.126 (848 dots)
H-F-P (us)	0.711 (104 dots)	0.474 (16 dots)
f v	59.954 Hz	60 Hz
V-Total (ms)	16.679 (1089 lines)	16.667 (517 lines)
V-Sync (ms)	0.092 (6 lines)	0.258 (8 lines)
V-B-P (ms)	0.459 (30 lines)	0.741 (23 lines)
V-Active (ms)	16.082 (1050 lines)	15.474 (480 lines)
V-F-P (ms)	0.046 (3 line)	0.193 (6 lines)
SYNC. H/V	-/+	+ / +
POLARITY		
SEP . SYNC	Y	Y

Monitor Block Diagram



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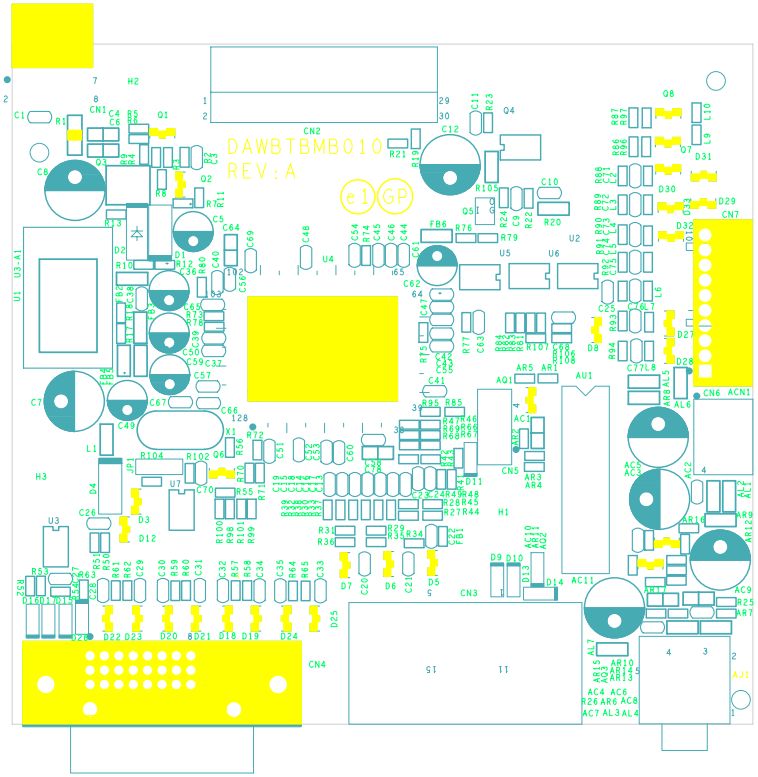
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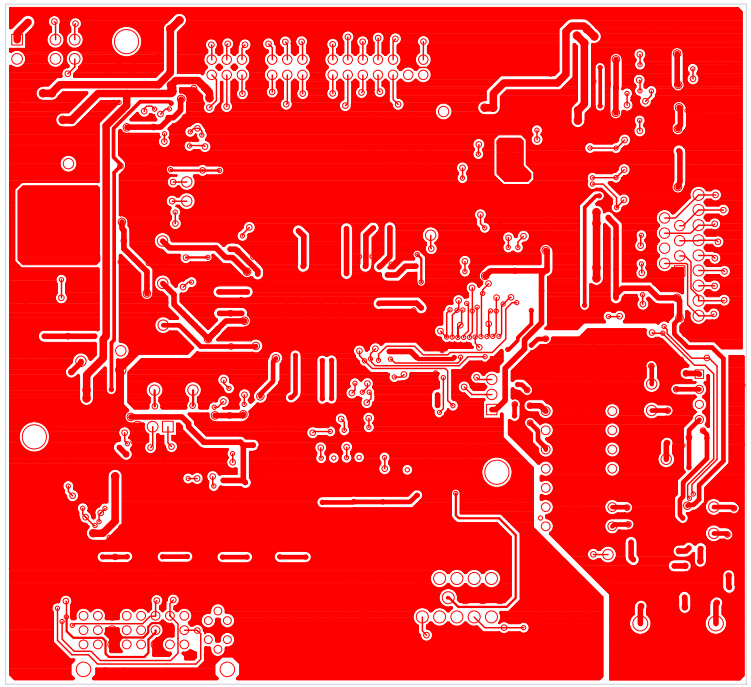

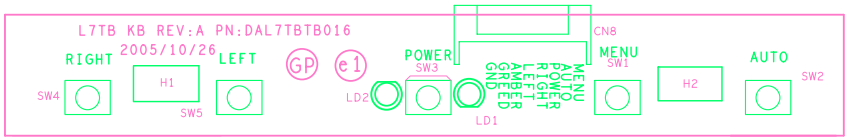
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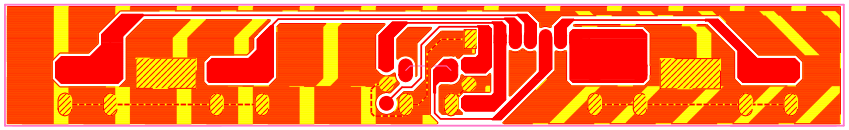
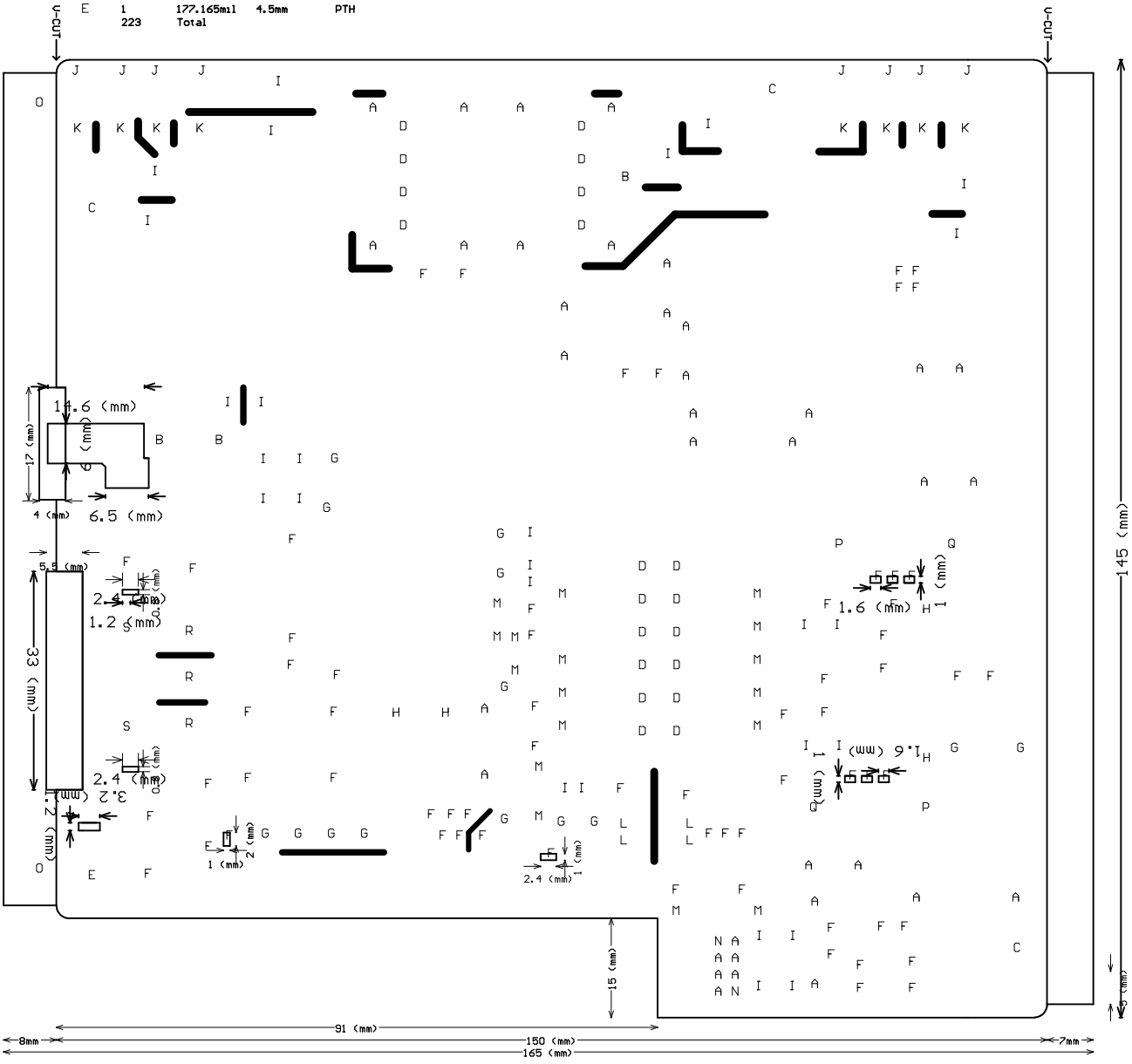
LEFT
GP
e1
POWER
SW3
MENU
SW1
AUTO
SW2
SW4
H1
SW5
H2
LD2
LD1
CN8
MENU
AUTO
RIGHT
LEFT
AMBER
GREEN
GND



K	8	27.559mil	0.7mm	PTH
I	27	31.496mil	0.8mm	PTH
L	4	32mil	0.8128mm	PTH
N	2	33.465mil	0.85mm	PTH
A	36	35.433mil	0.9mm	PTH
F	65	39.37mil	1mm	PTH
J	8	43.307mil	1.1mm	PTH
G	14	47.244mil	1.2mm	PTH
M	17	51.181mil	1.3mm	PTH
H	4	55.118mil	1.4mm	PTH
B	3	59.055mil	1.5mm	PTH
R	3	70.866mil	1.8mm	PTH
Q	2	78.74mil	2mm	PTH
P	2	82.677mil	2.1mm	PTH
D	20	98.425mil	2.5mm	PTH
S	2	125.984mil	3.19999mm	PTH
C	3	133.858mil	3.4mm	PTH
O	2	137.795mil	3.5mm	PTH
E	1	177.165mil	4.5mm	PTH
	223	Total		



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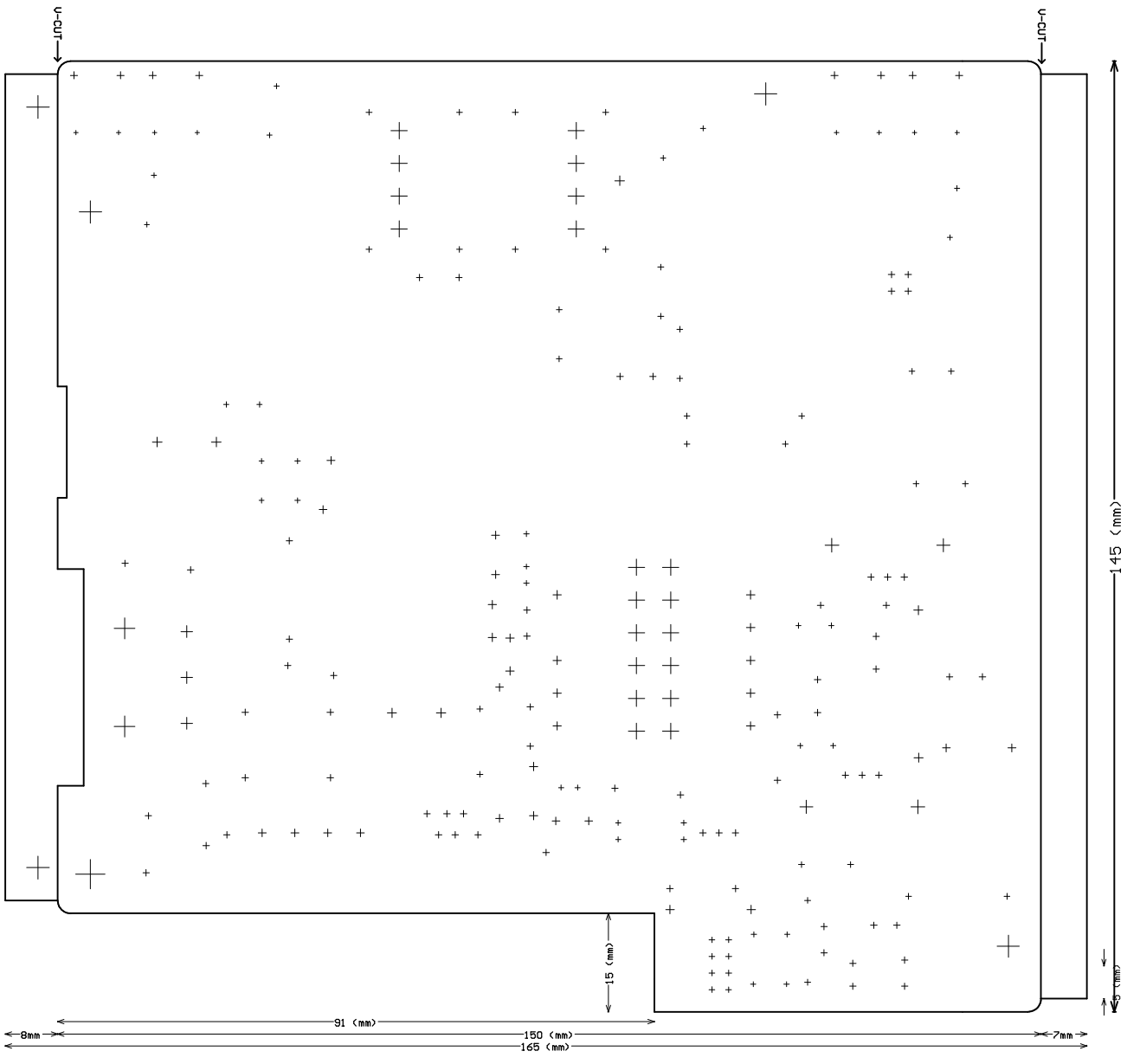

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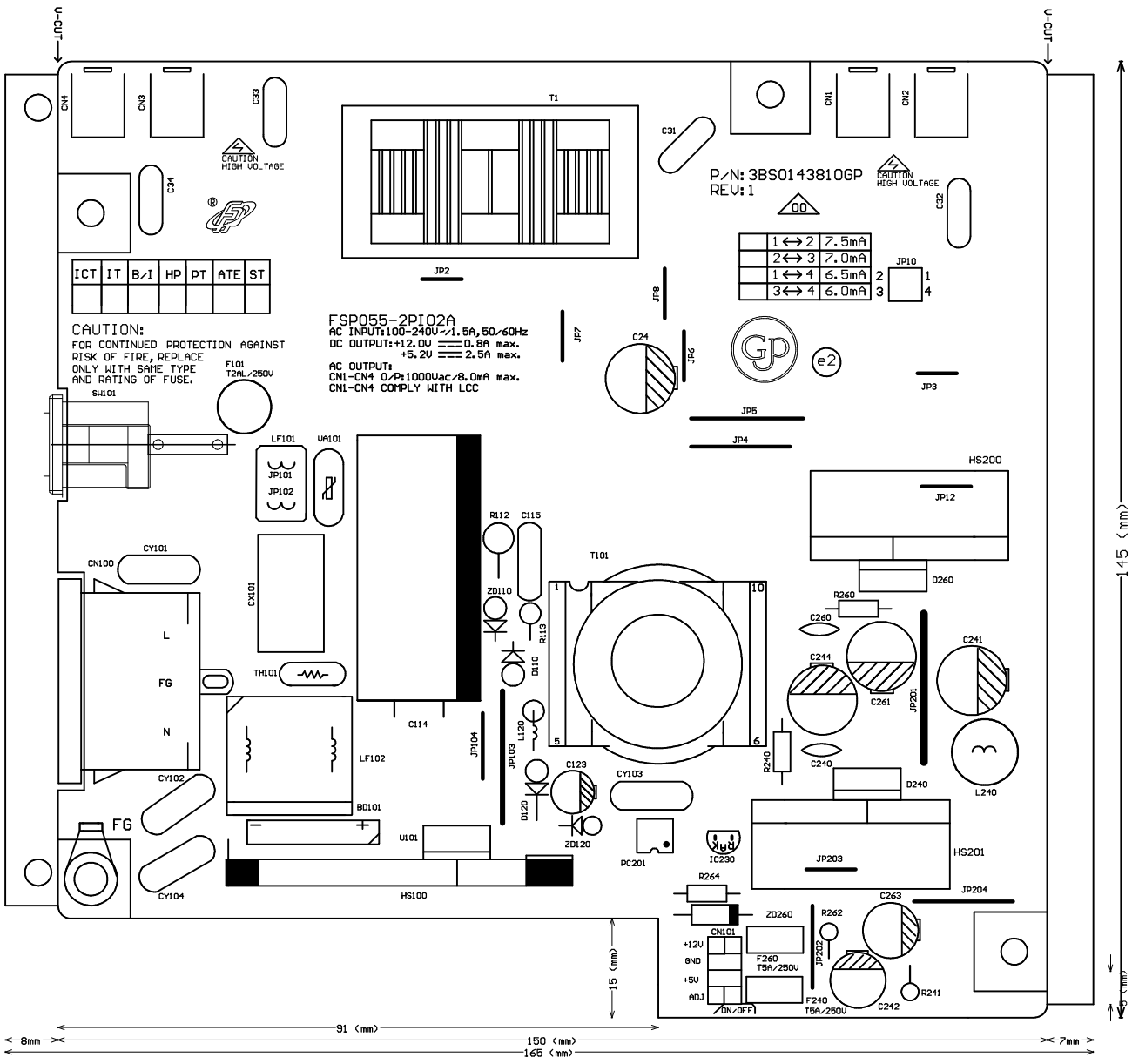

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P/N: 3B5014381006P

F5P055-2P102A REV:1.00 27-Jul-2006 Bottom Overlay

P/N:3BS0143810GP

F5P055-2P102A REV:1.00 27-Jul-2006 Bottom Solder Mask

Chapter 2

OPERATING INSTRUCTIONS

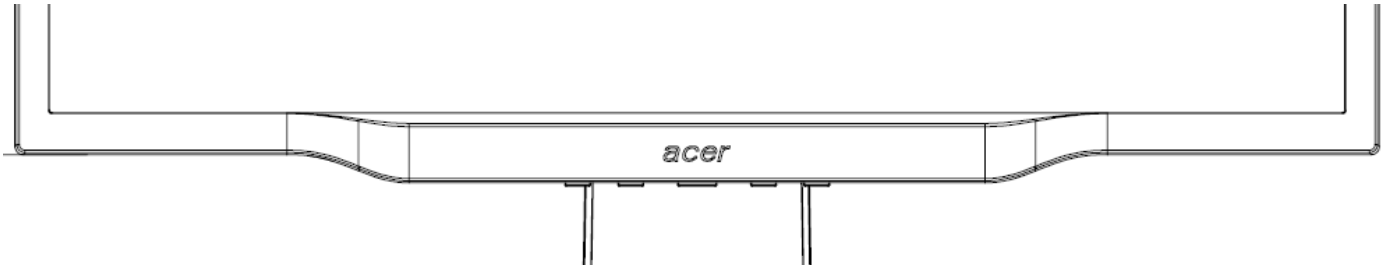
Front Panel Definition

This Section defines the front panel User Interface for Led Indictor and Key function.

Key Definition:

There are five keys defined in this system and described bellows.

* Adjusting display settings



External Controls

①	⏻	POWER	Power on/off Blue: power on Orange: in sleep mode
②	MENU	OSD Function	Press to view OSD. Press again to exit a selection in OSD.
③	^	UP/ PLUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the buttons marked ^ or v to adjust the volume.
④	v	DOWN / MINUS	If OSD is active, press to select or adjust OSD options. If OSD is inactive, press once, then press the buttons marked ^ or v to adjust the volume.
⑤	AUTO	AUTO	If OSD is active, press to enter a selection in OSD. If OSD is inactive, press and the monitor will automatically optimize the position, focus and clock of your display.

OSD Menu

Picture

Contrast:

This adjusts dark and light shades of color relative to each other to achieve a comfortable contrast.

Brightness:

This adjusts the brightness of the picture on the screen.

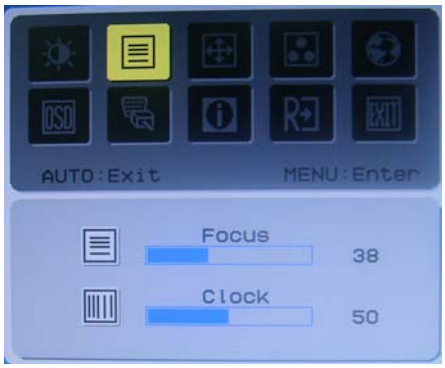
Color temp. :

There are three ways of adjusting color:

Warm (Reddish white)

Cool (Bluish white)

User : You can adjust the colors red, green and blue to the intensity you desire.

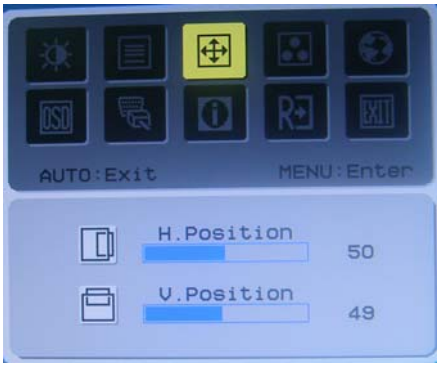


Focus:

This removes any horizontal distortion and makes the picture clear and sharp.

Clock:

If there are any vertical stripes seen on the background of the screen this renders them less noticeable by minimizing their size. It also changes the size of the horizontal screen.



H-Position:

This adjusts the horizontal screen position.

V-Position:

This adjusts the vertical screen position.

Color temp:

There are three ways of adjusting color:

Warm (Reddish white)

Cool (Bluish white)

User : You can adjust the colors red, green and blue to the intensity you desire.

Option

Auto Config. :

System runs auto -configuration.

nformation:

This shows brief information on the screen.

Analog Input:

Setting

Language:

Select the OSD menu language from

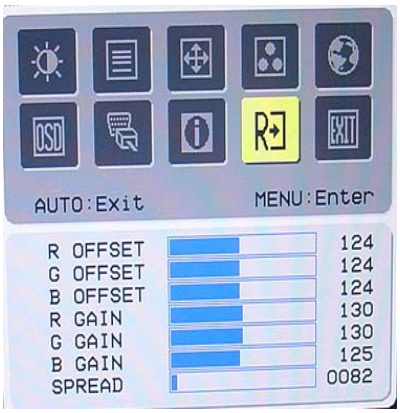
English, French, German, Italian, Spanish, Simplified Chinese, Traditional Chinese, Japanese and Russian.

OSD H. Position

OSD V. Position

OSD Time-out

This changes the position of the OSD window on the screen and staying time.



Factory Mode

You can entry into factory mode when press "Auto" and then press"Power" Key(LED light),it is successful if Power LED Light is amber.

Factory1 Adjustment:

R,G,B OFFSET :

Adjust current RGB cut off level

R,G,B GAIN:
Adjust current RGB Driver value.
SPREAD :
Adjust chip set internal frequency spread effect for EMI testing .

Factory 2 Adjustment:
This page only visible in factory mode
AUTO BURN：
Use the chip set internal pattern for hot running monitor panel and inverter.
AUTO COLOR ：
Perform Auto Balance measurement .
COLOR UPDATE：
Force presently R,G,B offset and gain parameters update to currently
temperature memory address.
FACTORY RESET：
Recall to factory setting and power off immediately.
Display F/W version and panel vender and DDC serial no.

LED Definition

The system equips one dual color (blue/amber) led to indict system status and defined as bellows:

LED Color	System Status
Blue	System in normal operation mode
Amber	System in power-saving mode
Dark	System in power-off mode

LOGO:

When the monitor is power on, the LOGO will be showed in the center, and disappear slowly.

HOW TO OPTIMIZE THE DOS-MODE

Plug and play

Plug & play DDC2B feature

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities. The communication channel is defined in two levels, DDC2B. The DDC2B is a bi-directional data channel based on the I^2C protocol. The host can request EDID information over the DDC2B channel.

THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association(VESA) and/or the United States Environmental Protection Agency (EPA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

USING THE RIGHT POWER CORD

The accessory power cord for the Northern American region is the wallet plug with NEMA 5-15 style and is UL listed and CSA labeled. The voltage rating for the power cord shall be 125 volt AC.
Supplied with units intended for connection to power outlet of personal computer: Please use a cord set consisting of a minimum No. 18 AWG, type SJT or SVT three conductors flexible cord. One end terminates with a grounding type attachment plug, rated 10A, 250V,CEE-22 male configuration. The other end terminates with a molded-on type connector body, rated 10A, 250V, having standard CEE-22 female configuration.
Please note that power supply card needs to use VDE 0602, 0625, 0821 approval power cord in European counties.

Chapter 3

Machine assembly

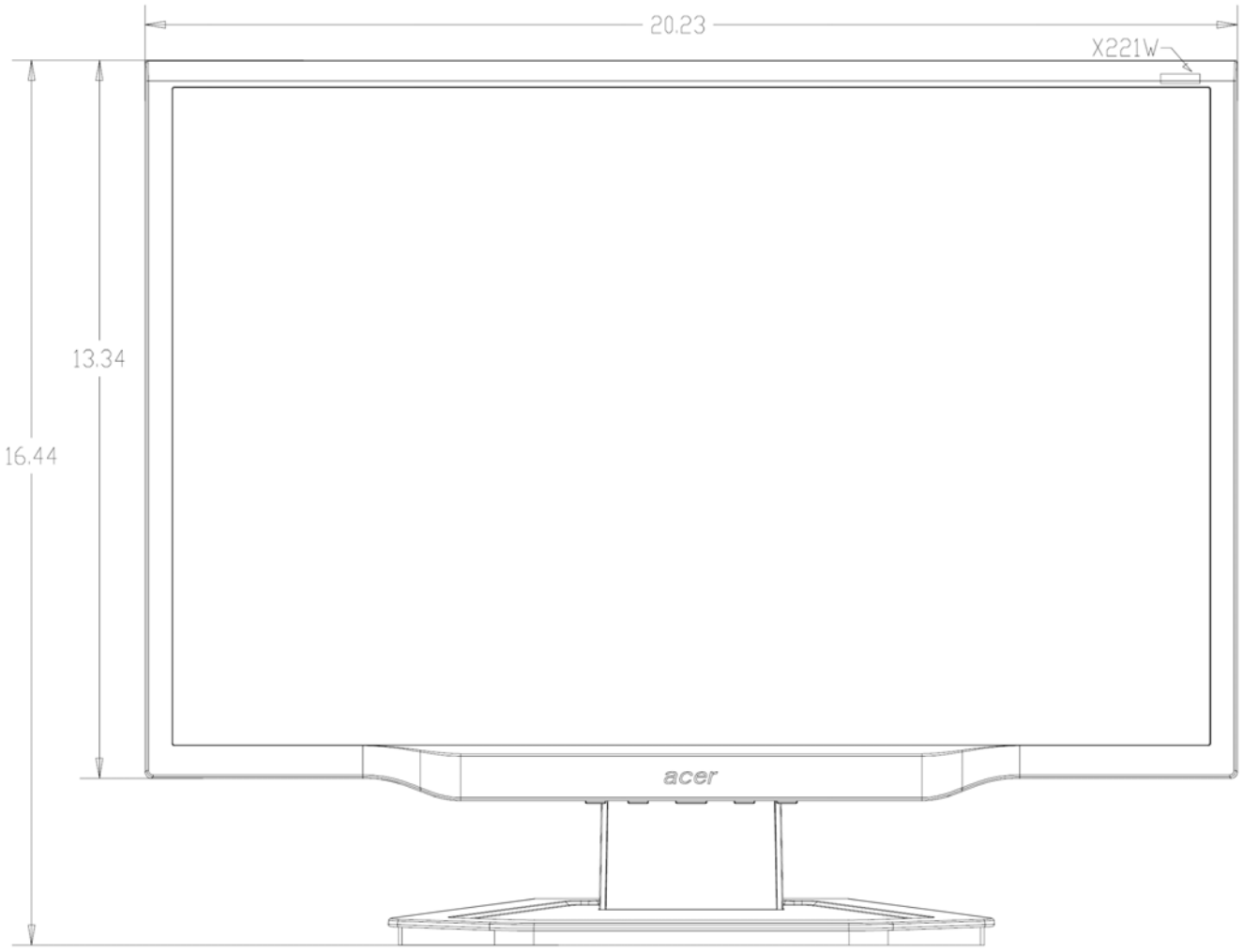
This chapter contains step-by-step procedures on how to assemble the monitor for maintenance and trouble shooting

NOTE : 1. The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding to avoid mismatch when putting back the components.

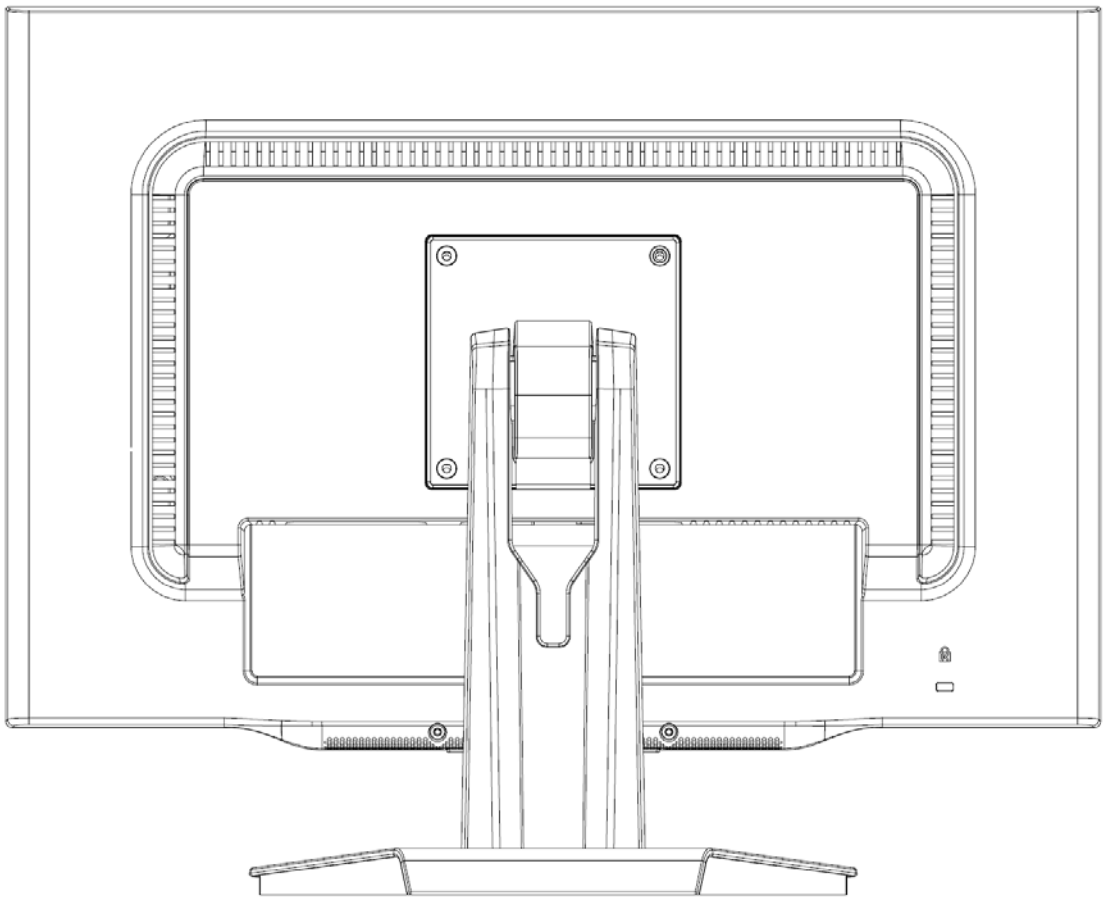
2. Note : The monitor surface is susceptible to scratching! Therefore, lay the monitor on a soft surface when mounting or removing the base.

3. Wear gloves.

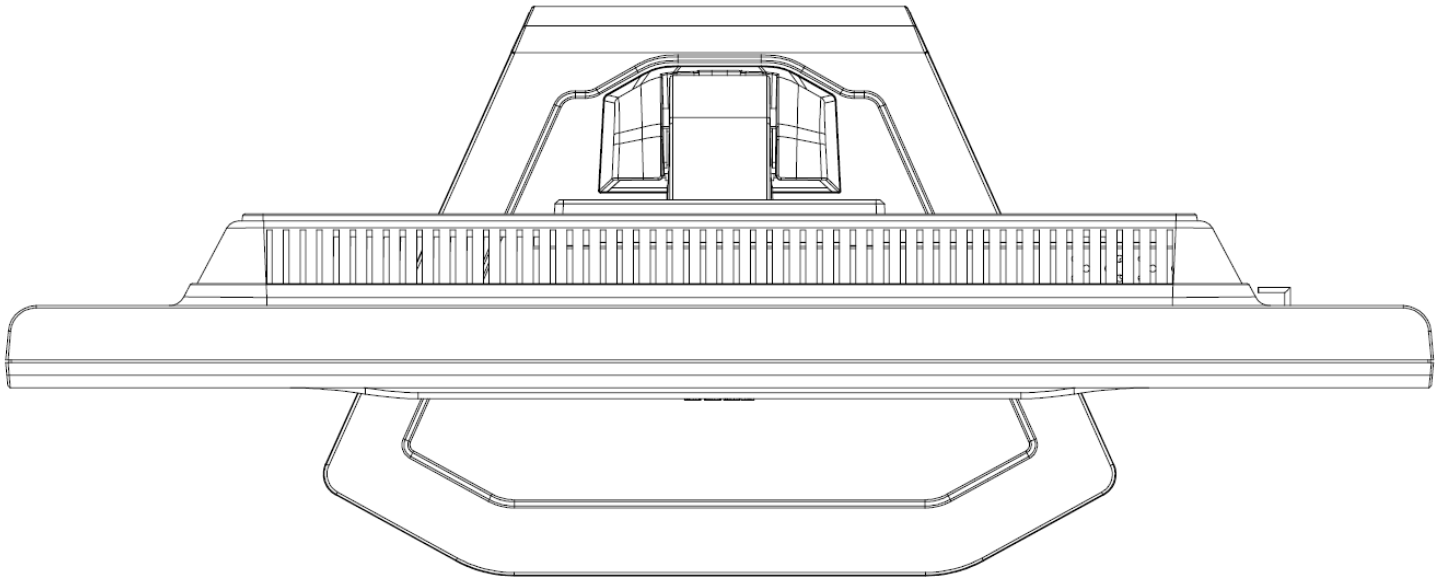
Front View: (unit : inch)



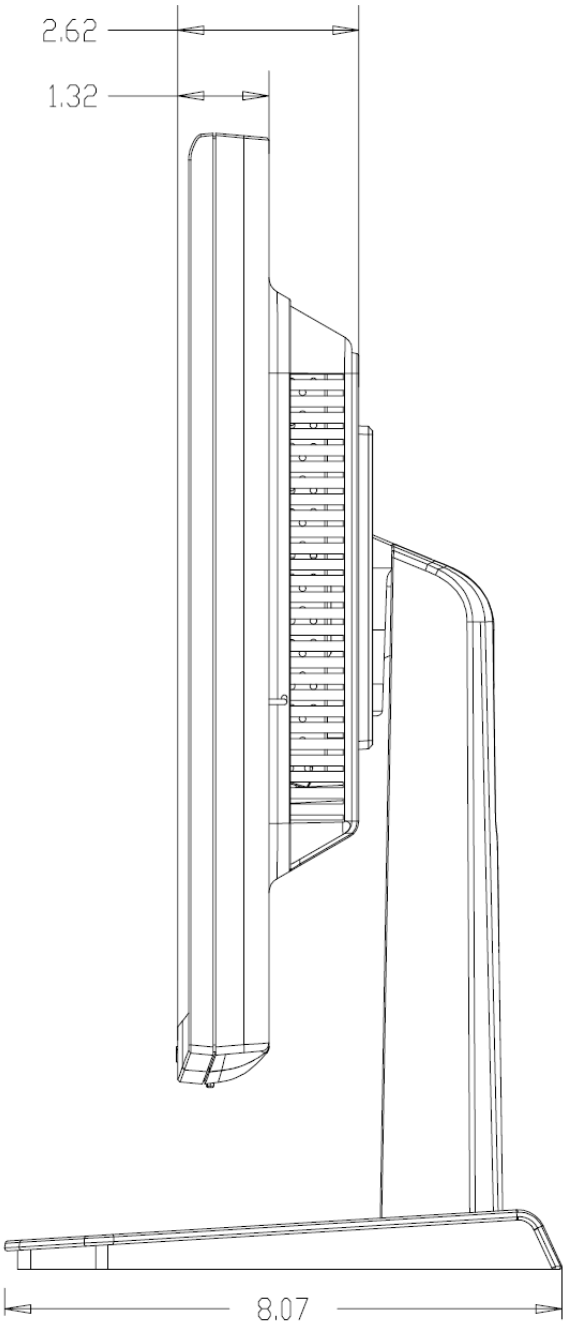
Real View:



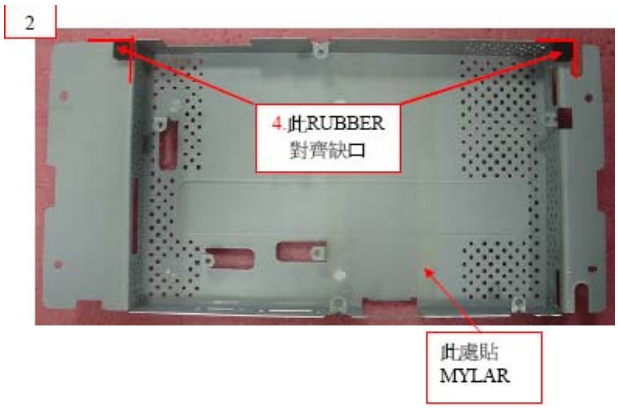
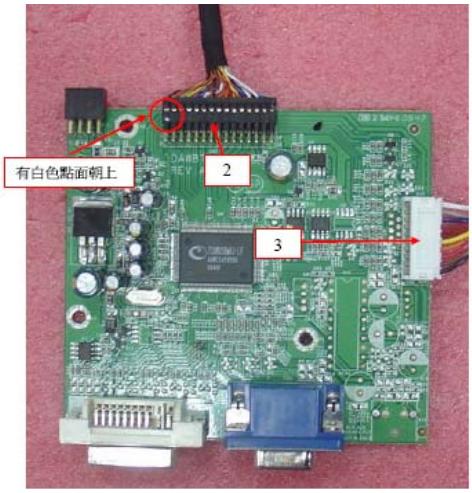
Top View:

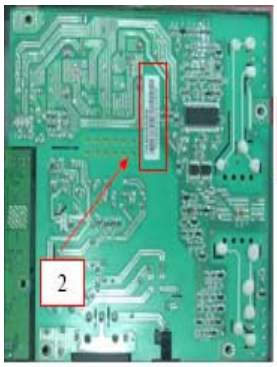
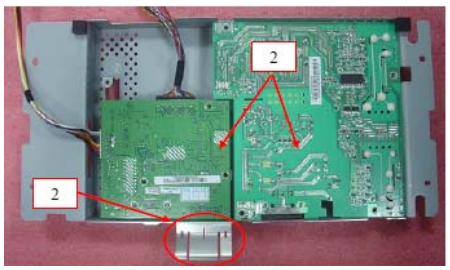


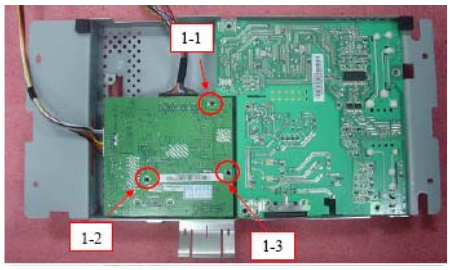
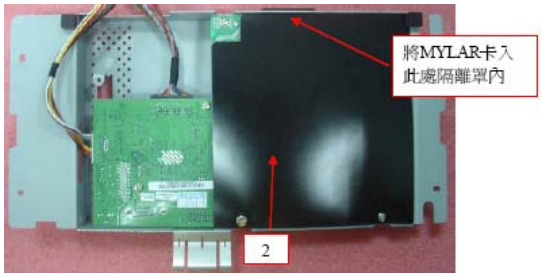
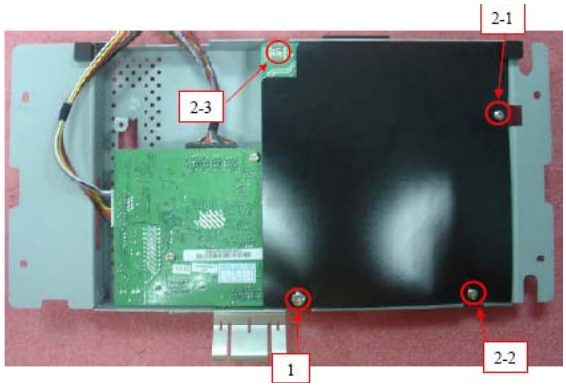
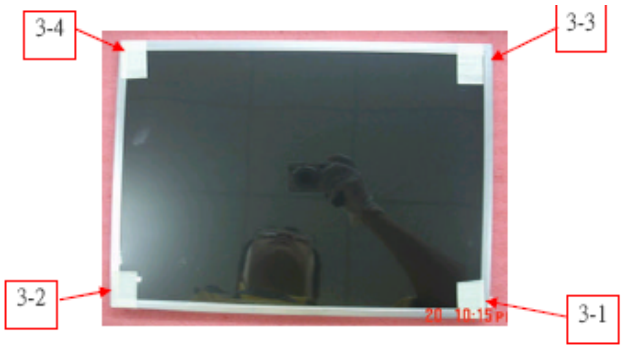
Side View: (unit : mm)

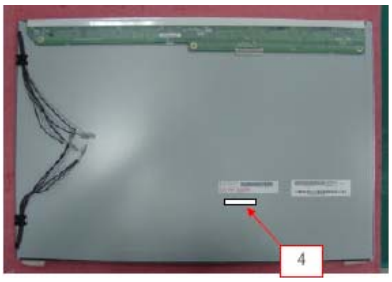
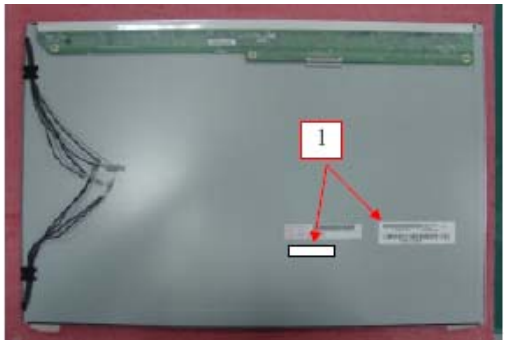


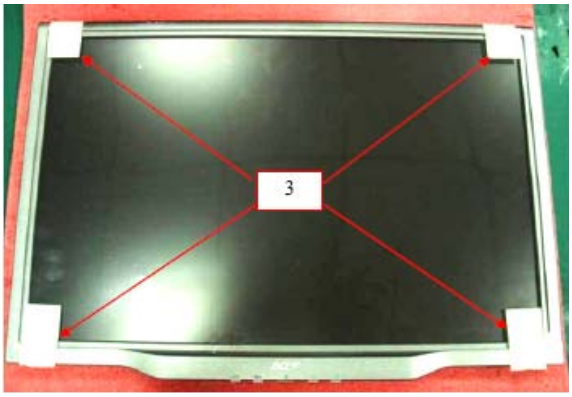
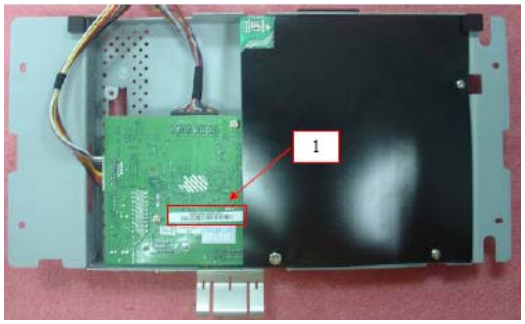
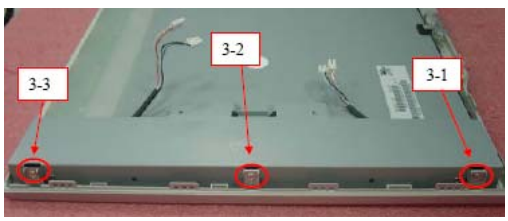
Assembly process

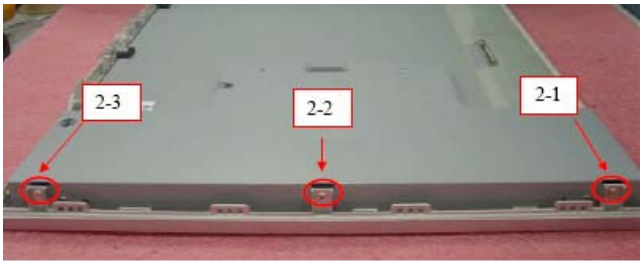
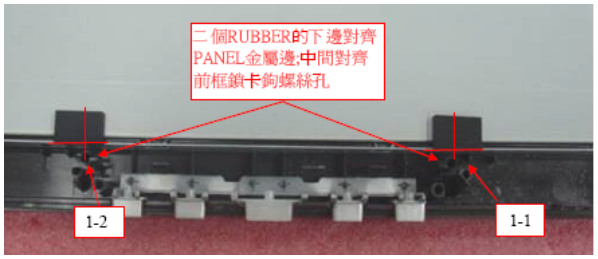
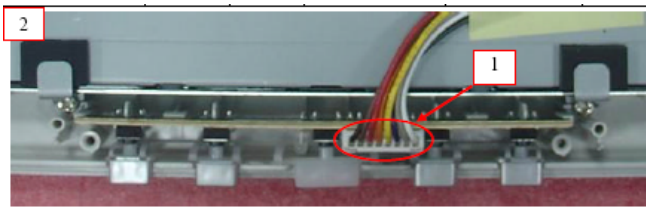
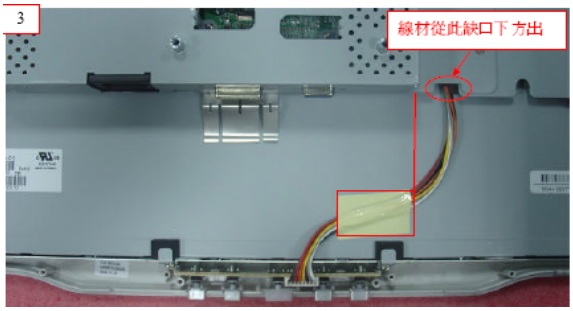
Picture	Description
	CHECKING THE FOAM CUSHION AND PUT IT TO PRODUCTION LINE CHECKING THE PCB SHIELDING AND PUT IT TO PRODUCTION LINE STICK 2*PCS RUBBER ON THE LOCATION OF SHIELDING AS LEFT SHOW PUT 1*PCS FLOW CARD ON THE PRODUCTION LINE
	CHECKING THE MAIN BOARD WHETHER BAD CHECKING THE LVDS CABLE AND INSERT IT TO THE SINK OF MAIN BOARD CHECKING THE CONNECT CABLE OF BUTTON BOARD AND INSERT IT TO THE SINK OF MIAN BOARD PUT THE FINISHED SUBASSEMBLY TO THE PRODUCTION LINE

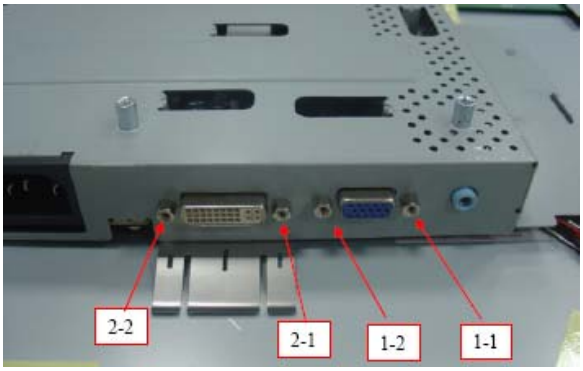
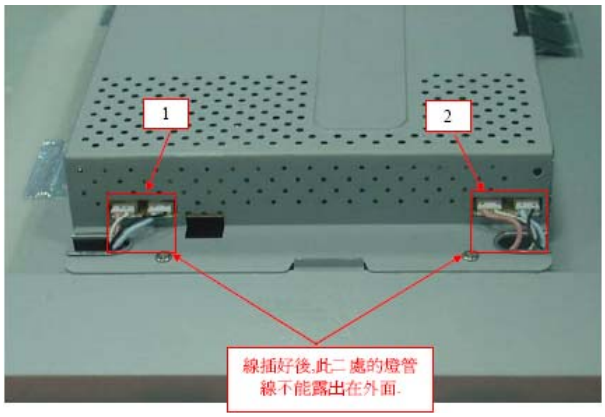
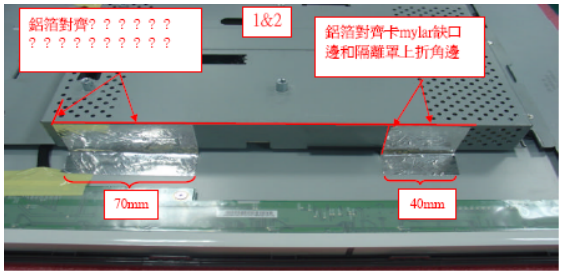
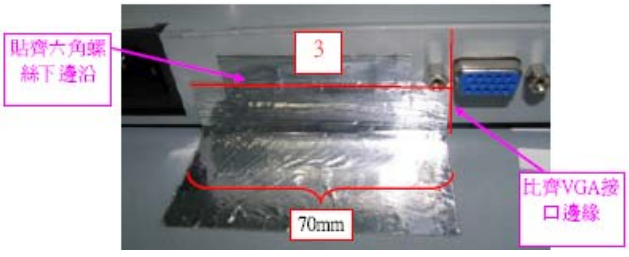
 白膠保存: 存放於通風陰涼避免日光; 未開包裝有效期:9個月 使用方法: 分裝於小膠瓶內的白膠在48小時內未使用完需作報廢處理	CHECKING THE POWER BOARD WHETHER BAD SCAN THE CODE OF S/N AND P/B ON FLOW CARD CHANGE THE LAMP CURRENT OF PANEL CONNECT THE CABLE AND POWER/B BY WHITE GOOEY MARK THE APPOINTED LOCATION BY PEN AS LEFT SHOW PUT THE POWER BOARD TO PRODUCTION LINE
    	CONNECT THE MAIN BOARD AND POWER BOARD PUT 1*PCS SPRING TO THE SINK OF DVI THEN PUT THE M/B & P/B TO THE PCB SHIELDING(NO NEED TO FINISH THIS STEP WHEN NO DVI)

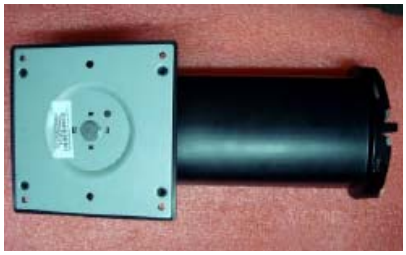
 	LOCK UP 2*PCS SCREWS ON THE LOCATION OF MAIN BOARD GET THE MYLAR OF POWER/B AND INSERT IT TO THE SHIELDING
	LOCK UP 1*PCS SCREWS(M4*8-B) ON THE LOCATION OF POWER BOARD AS LEFT SHOW LOCK UP 3*PCS SCREWS(M3*6-B) ON THE LOCATION OF POWER BOARD AS LEFT SHOW
	MOVE THE SHIELDING ON FRONT OF POWER BOARD TEAR OFF THE PACKING OF PANEL PUT PANEL ON THE PRODUCTION LINE AND TEAR OFF THE COLLOID

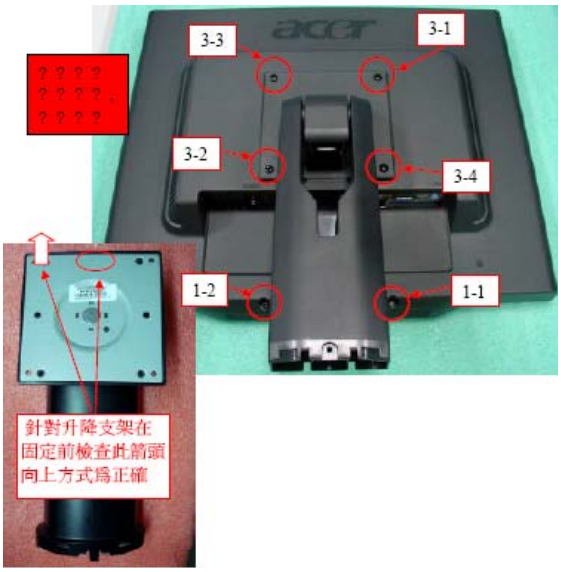
    	TEAR OFF THE PLASTIC FILM AND CHECKIN IF BE SCRAPED OR DIRTY STICK PLASTIC FILM ON THE PANEL TURN OVER THE PANEL AND TEAR OFF THE PLASTIC FILM TEAR OFF 1*PCS CODE ON THE PANEL FROM FLOW CARD
 	SCAN THE FLOW CARD S/N AND CODE, AND P/N OF PANEL GETTING AND CHECKING THE RIGHT BRACKET WHETHER ANAMORPHIC AND RUSTY PUT THE RIGHT BRACKET ON THE LEFT OF PANEL AND LOCK UP 2*PCS SCREWS OF IT

 	GET THE LEFT BRACKET AND CHECKIN WHETHER ANAMORPHIC AND RUSTY, THEN STICK 1*PCS FOAM ON THE BULGE PUT THE LEFT BRACKET ON THE RIGHT OF PANEL AND LOCK UP 2*PCS ON THE LOCATION AS LEFT SHOW TURN OVER THE PANEL AND TEAR OFF PLASTIC FILM
	GET THE BEZEL AND TEAR OFF PACKING, THEN CHECKING WHETHER BAD PUT THE BEZEL TO THE PANEL STICK THE PLASTIC FILM ON THE BEZEL TURN OVER THE LCD AND CHANGE THE PANEL TO DOWNSIDE
 	SCAN THE FLOW CARD S/N AND CODE OF MAIN BOARD LOCK UP3*PCS SCREWS ON THE LOCATION OF THE RIGHTSIDE OF BEZEL

	LOCK UP3*PCS SCREWS ON THE LOCATION OF THE LEFT OF BEZEL TEAR OFF THE PLASTIC FILM AND RECLAIM
 	STICK 2*PCS RUBBER ON THE LOCATION OF PANEL PUT 2*PCS HOOKS ON THE LOCATION OF BEZEL LOCK UP 2*PCS SCREWS TO HOOKS FOR RIVET BEZEL
 	INSERT THE BUTTON CABLE TO THE JACK OF BUTTON BOARD PUT THE BUTTON TO THE BEZEL, DON'T LET THE PLASTIC ANAMORPHIC SETTLE THE BUTTON CABLE AND STICK 1*PCS COLLOID ON IT FOR RIVET

	LOCK UP 2*PCS SCREWS ON THE VGA SINK OF MAIN BOARD LOCK UP 2*PCS SCREWS ON THE DVI SINK OF MAIN BOARD(IF HAVE DVI SINK)
	INSERT THE UPSIDE LAMP CABLE INSERT THE DOWNSIDE LAMP CABLE CHECKING THE LAMP CABLE WHETHER ANY MISS WITH INSTRUMENTS
 	STICK 1*PCS AL FOIL(50*70) TO THE PANEL AND SHIELDING FOR CONNECTION AS LEFT SHOW STICK 1*PCS AL FOIL(50*40)TO THE PANEL AND SHIELDING FOR CONNECTION AS LEFT SHOW STICK 1*PCS AL FOIL(50*70) TO THE PANEL AND SHIELDING FOR CONNECTION(IF NO DVI) AS LEFT SHOW LET THE AL FOIL FIRM ON THE LCD

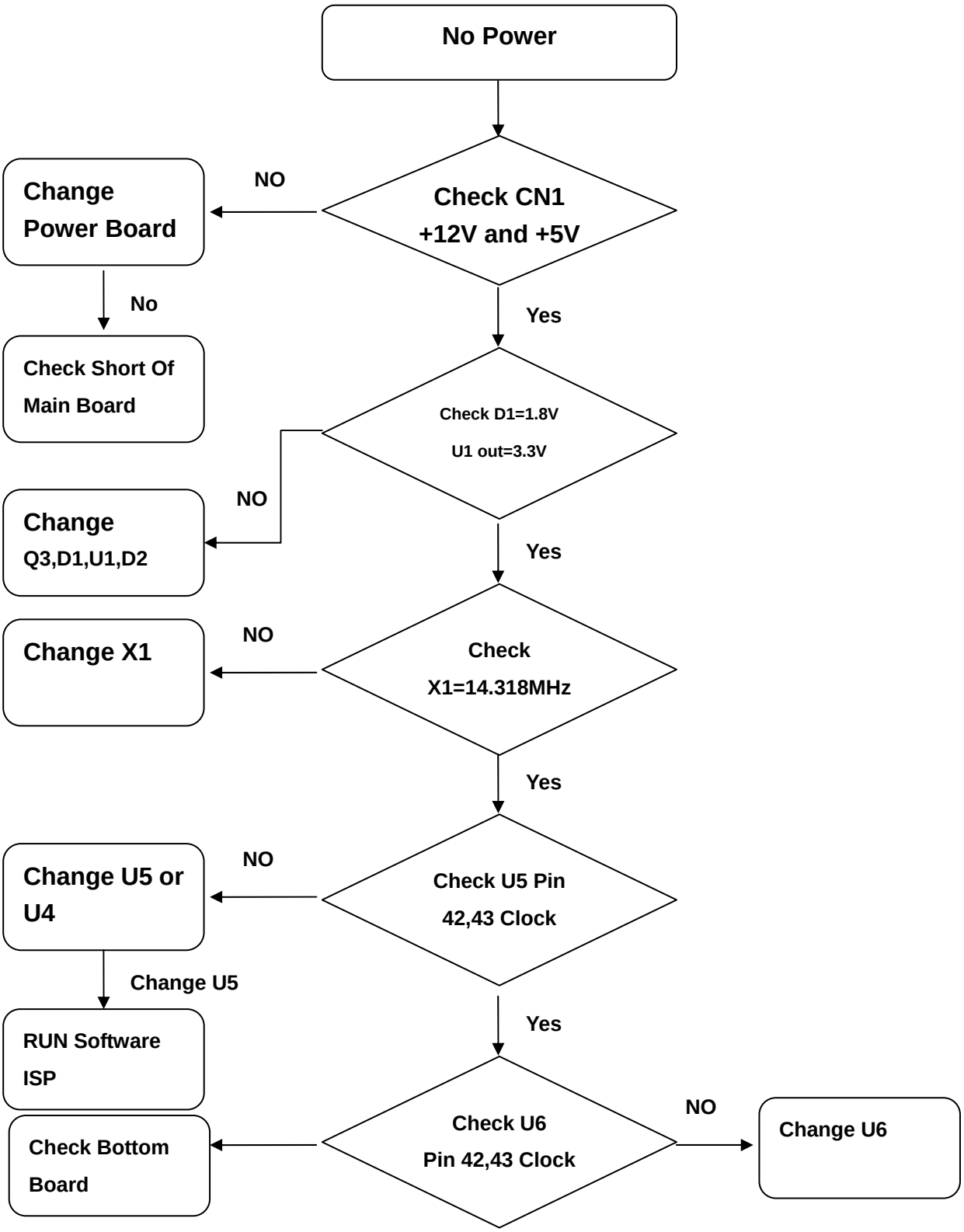
       	CHECKING THE COLLOID OF OUTSIDE OF LCD WHETHER FIRMED CHECKING THE CABLE OF BUTTON/B AND SPEAKER & LAMP CABLE WHETHER SETTLED FIRMED THE AL FOIL TURN OVER LCD AND CHECKIN WHETHER ANY DIRTY
	CHECKING THE REAR COVER AND PUT IT TO THE BEZEL STICK 1*PCS OF CODE ON THE LOCATION OF REAR COVER FROM FLOW CARD AS LEFT SHOW
  	CHECKING REAR COVER AND MAKING SURE WHETHER SETTLED LOCK UP2*PCS SCREWS ON THE REAR COVER CHECKING THE STAND AND PUT IT TO PRODUCTION LINE

	CHECKING THE SCREWS OF REAR COVER WHETHER UNLOCKED PUT THE STAND TO THE LOCATION OF REAR COVER LOCK UP 4*PCS ON SCREWS ON THE STAND FOR RIVETING
	INSERT THE VGA SIGNAL CABLE TO THE SINK OF LCD PUT THE BASE ON THE STAND OF LCD
 	STAND UP THE LCD INSERT THE POWER CABLE TO THE POWER SINK AND TURN ON IT STICK THE FLOW CARD ON THE RIGHT OF BEZEL DOWNSIDE

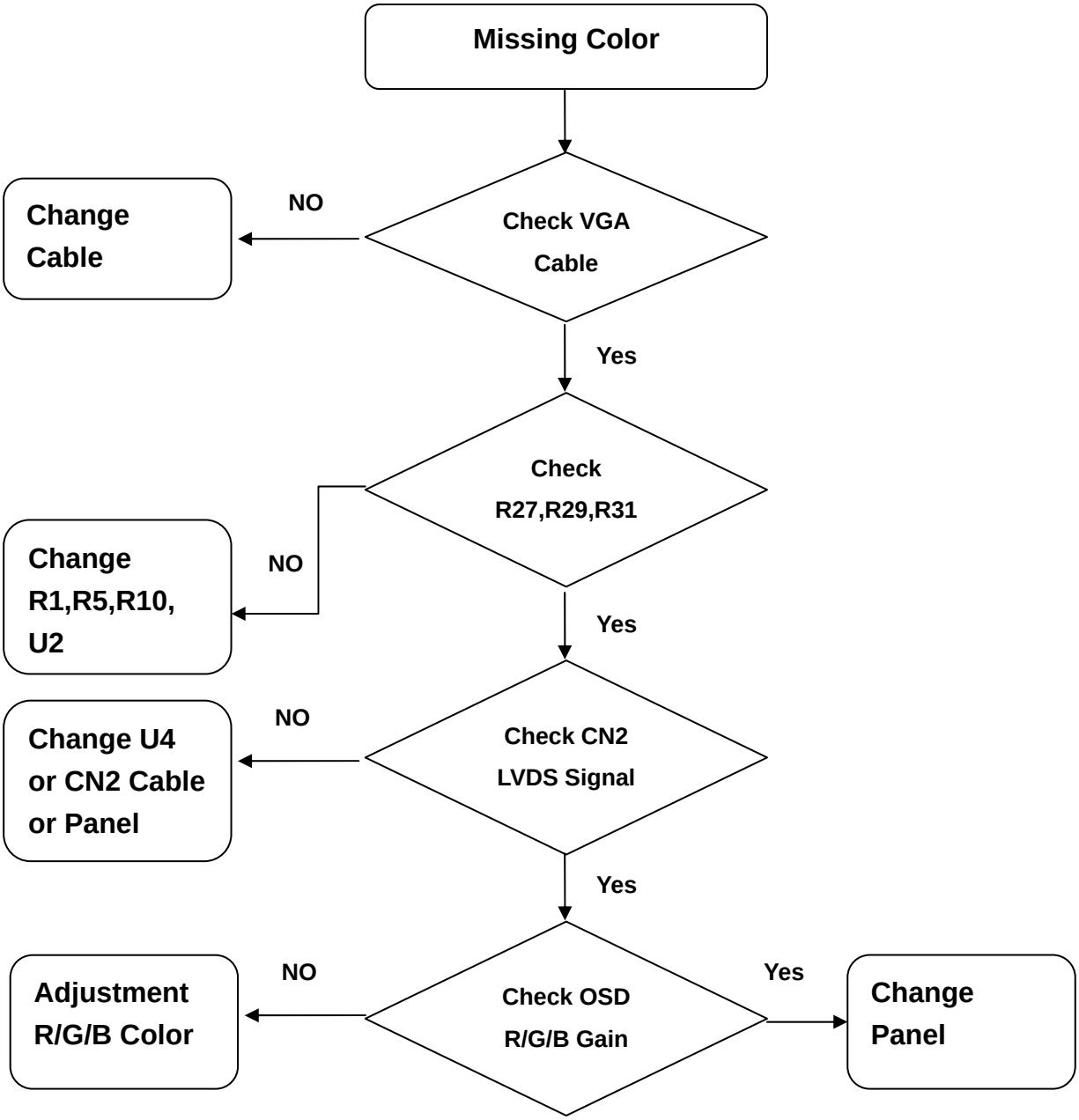
Chapter 4

Trouble Shooting

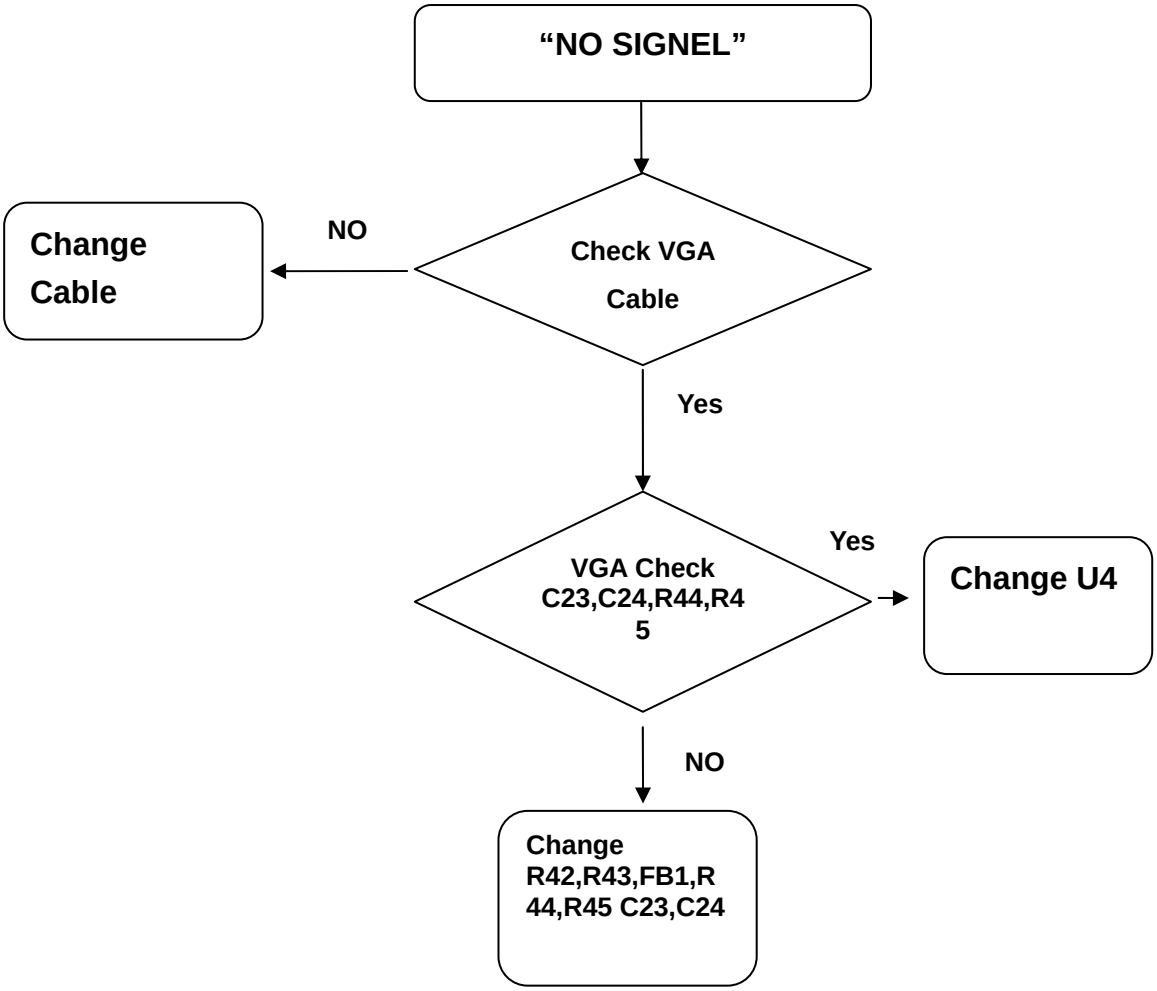
1. No Power



2. Missing Color



3. Always show “NO SIGNEL”



Chapter 5

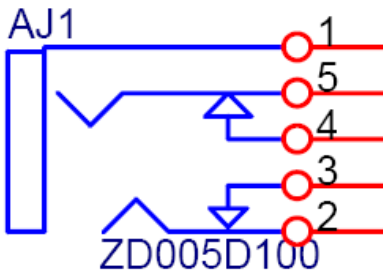
Connector Information

Phone jack stereo

PIN1. AC power cord : CEE22 typed connector

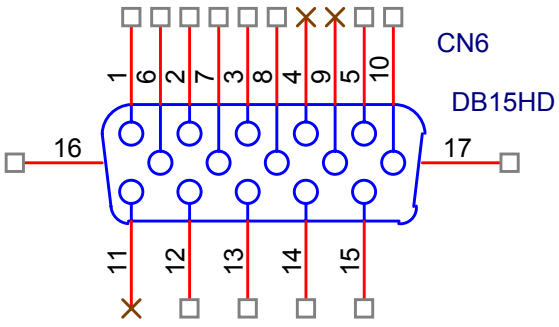
PIN2. Audio cable

PIN3. Audio : Line-in receptacle



Video signal connector 15P Mini D-Sub connector x 1

PIN	Signal
1	Red
2	Green
3	Blue
4	No Pin
5	Ground
6	Ground Red
7	Ground Green
8	Ground Blue
9	+5 V for DDC
10	Ground
11	Ground
12	SDA (DDC Data)
13	H – Sync
14	V – Sync
15	SCL (DDC Clock)



Proprietary connecting of DVI box

The PIN assignment of the 24 pin DVI-D connector / cable is as follows:

PIN	Signal
1	TMDS data2-
2	TMDS data2+
3	TMDS data2 shield
4	NC
5	NC
6	DDC clock
7	DDC data
8	Not connected
9	TMDS data1-
10	TMDS data1+
11	TMDS data1 shield
12	NC
13	NC
14	+5V
15	Ground (return for +5 V and H/V sync)
16	Hot plug detect
17	TMDS data0-
18	TMDS data0+
19	TMDS data0 shield
20	NC
21	NC
22	TMDS clock shield
23	TMDS clock+
24	TMDS clock-

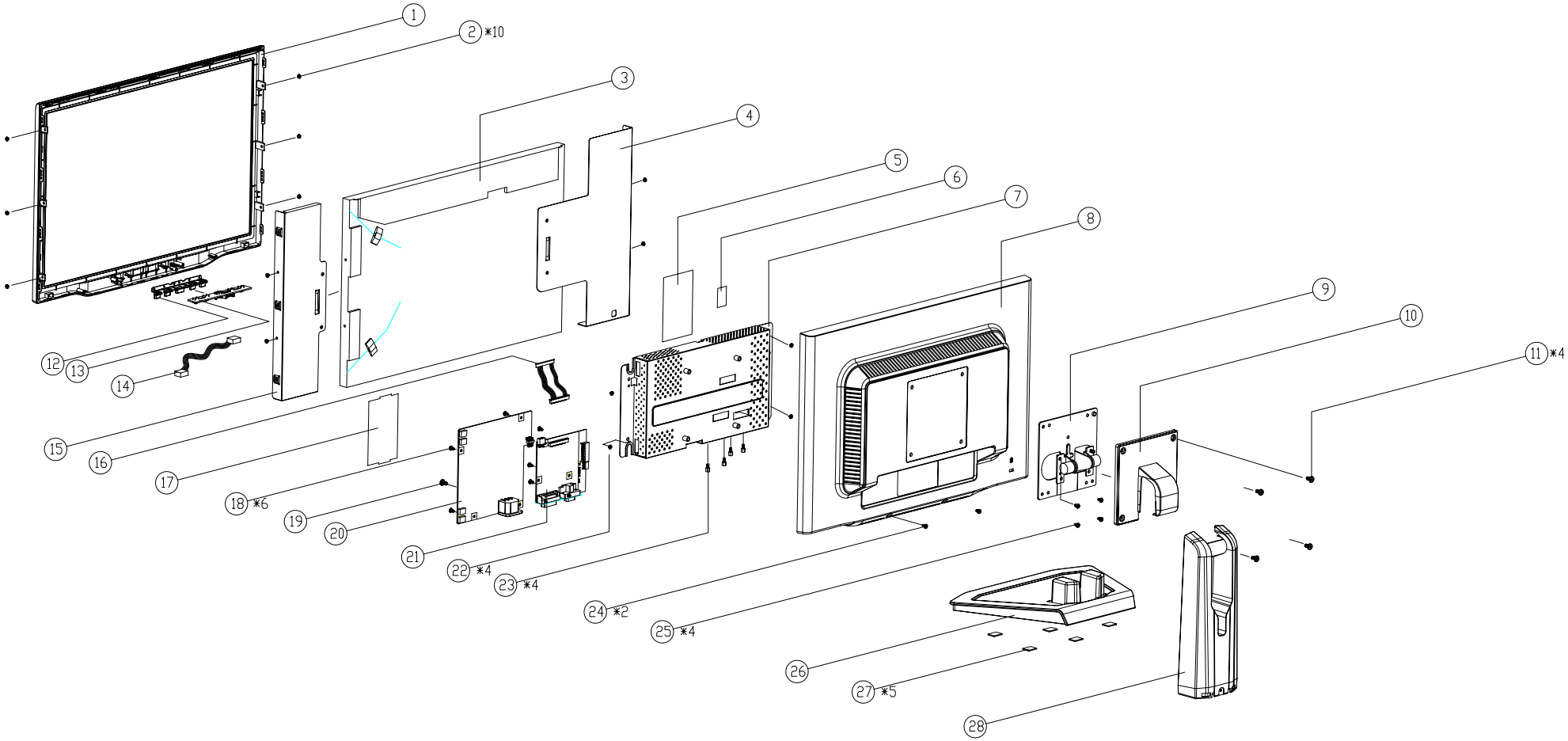
Chapter 6

FRU (Field Replaceable Unit) LIST

This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of AL1511. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE : Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel(http://aicsl.acer.com.tw/spl/). For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED CERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how best to dispose it, or follow the rules set by your regional Acer office on how to return it.



Item	Part Number	Part Description	Qty
1	EAWBTB03028	BEZEL_E_X WBTD	1
2	MM30030IBJ4	SCREW M3*3-I-NI	10
3	AAM220EW000	LCD(TFT)22" M220EW01 V0 FOR ACER CON GP	1
4	FAWBTB02013	LCD BKT-L WBTB	1
5	FCL7TA01018	SHIELDING MYLAR L7TA	1
6	FCM7T004014	AL FOIL M7T	1
7	FAWBTD01016	SHIELDING_X WBTD	1
8	EAWBTD01016	LCD COVER_X WBTD	1
9	EBL9TB02013	HINGE ASSY L0TB	1
10	EBL9TB02013	HINGE COVER L9TB	1
11	MM40100B244	SCREW M4.0*10-B BLACK (NYLOK)	4
12	EBWBTB01018	BUTTON WBTB	1
13	23L7TBBB001	L7TB BUTTON/B ASSY	1
14	DDL7TBBU000	CABLE MB-BUTTON	1
15	FAWBTB03010	LCD-BKT-R WBTB	1
16	DD0L9ELC030	CABLE LVDS	1
17	FCWBTB01019	MYLAR POWER WBTB	1

Item	Part Number	Part Description	Qty
18	MM30060BBJ3	SCREW M3.0*6,B(NI) GP	6
19	MM40080BBW1	SCREW M4.0*8.0-B(NI,WASHER)	1
20	AS05B5E0408	ADP/INV FSP055-2PI02A, 90~264V GP	1
21	21WBTBMB079	WBTB M/B ASSY(FOR WBTD,TSUMU58WHJ)GP	1
22	MM30060IBJ8	SCREW M3.0*6.0-I(NI) GP	4
23	MBLI1004018	IO NUT LI1	4
24	MF30100PJ23	SCREW F3*10,(BNI) GP	2
25	MF40080IBJ1	SCREW F4.0*8-I(NI)	4
26	EAL0TB04011	BASE L0TB	1
27	GAL7TA01016	RUBBER FOOT L7TA	5
28	EAL0TB03014	STAND L0TB	1

PART NUMBER OF EXPLODED VIEW

ITEM	PART NUMBER	PART DESCRIPTION	QTY	ITEM	PART NUMBER	PART DESCRIPTION	QTY
1	EAWBTB03028	BEZEL_E_X WBTD	1	16	DD0L9ELC030	CABLE LVDS	1
2	MM30030IBJ4	SCREW M3*3-I-NI	10	17	FCWBTB01019	MYLAR POWER WBTB	1
3	AAM220EW000	LCD(TFT) 22" M220EW01 V0 FOR ACER CON GP	1	18	MM30060BBJ3	SCREW M3.0*6, B(NI) GP	6
4	FAWBTB02013	LCD BKT-L WBTB	1	19	MM40080BBW1	SCREW M4.0*8.0-B(NI, WAHSER)	1
5	FCL7TA01018	SHIELDING MYLAR L7TA	1	20	AS05B5E0408	ADP/INV ASP055-2PI02A, 90~264V GP	1
6	FCM7TD04014	AL FOIL M7T	1	21	21WBTBMB079	WBTB M/B ASSY(FOR WBTD, TSUMU58WHJ)GP	1
7	FAWBTD01016	SHIELDING_X WBTD	1	22	MM30060IBJ8	SCREW M3.0*6.0-I(NI) GP	4
8	EAWBTD01016	LCD COVER_X WBTD	1	23	MBLI1004D18	IO NUT LI1	4
9	EBL9TB02013	HHINGE ASSY L0TB	1	24	MF30100PJ23	SCREW F3*10, (BNI) GP	2
10	EBL9TB02013	HINGE COVER L9TB	1	25	MF40080IBJ1	SCREW F4*8-I(NI)	4
11	MM40100B244	SCREW M4.0*10-B BLACD (NYLOK)	4	26	EALDTB04011	BASE L0TB	1
12	EBWBTB0101B	BUTTON WBTB	1	27	GAL7TA01016	RUBBER FOOT L7TA	5
13	23L7TBBB001	L7TB BUTTON/B ASSY	1	28	EAL0TB03014	STAND L0TB	1
14	DDL7TBBU000	CABLE MB-BUTTON	1				
15	FAWBTB03010	LCD-BKT-R WBTB	1				

Part list

Above picture show the description of the following component.

Item	Picture	Description	Part No.
1		Back Cover	25L7TBLC000
2		Stand	26L7TBSA001
3		Bezel	34L7TBLB002
4		Base	38L9TBBS000
5		Screw	MM40080BBW1

SCHEMATIC DIAGRAM

Chapter 7

WBTD-D MSTAR MB RSDS/LVDS

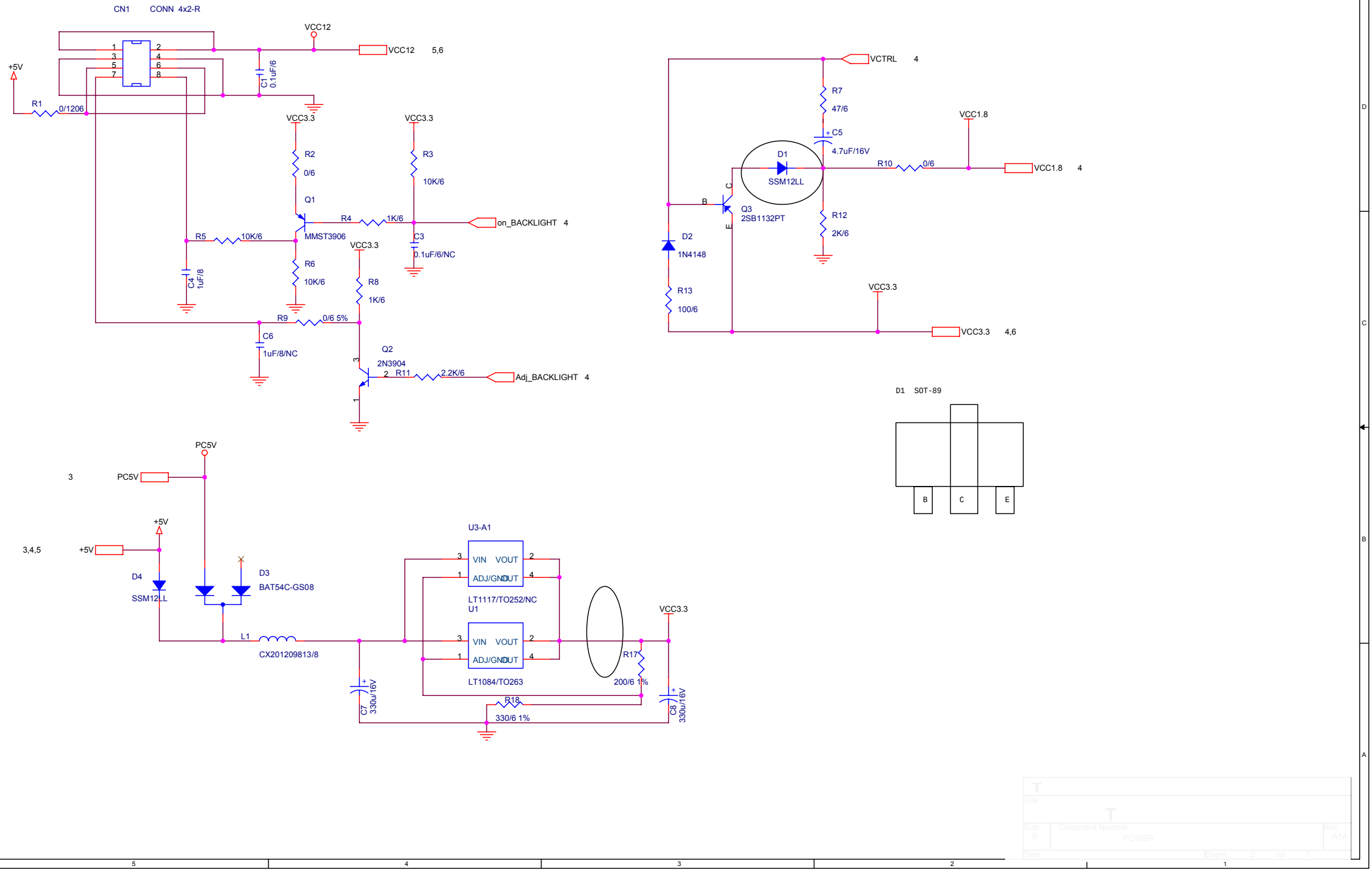
CONTENTS

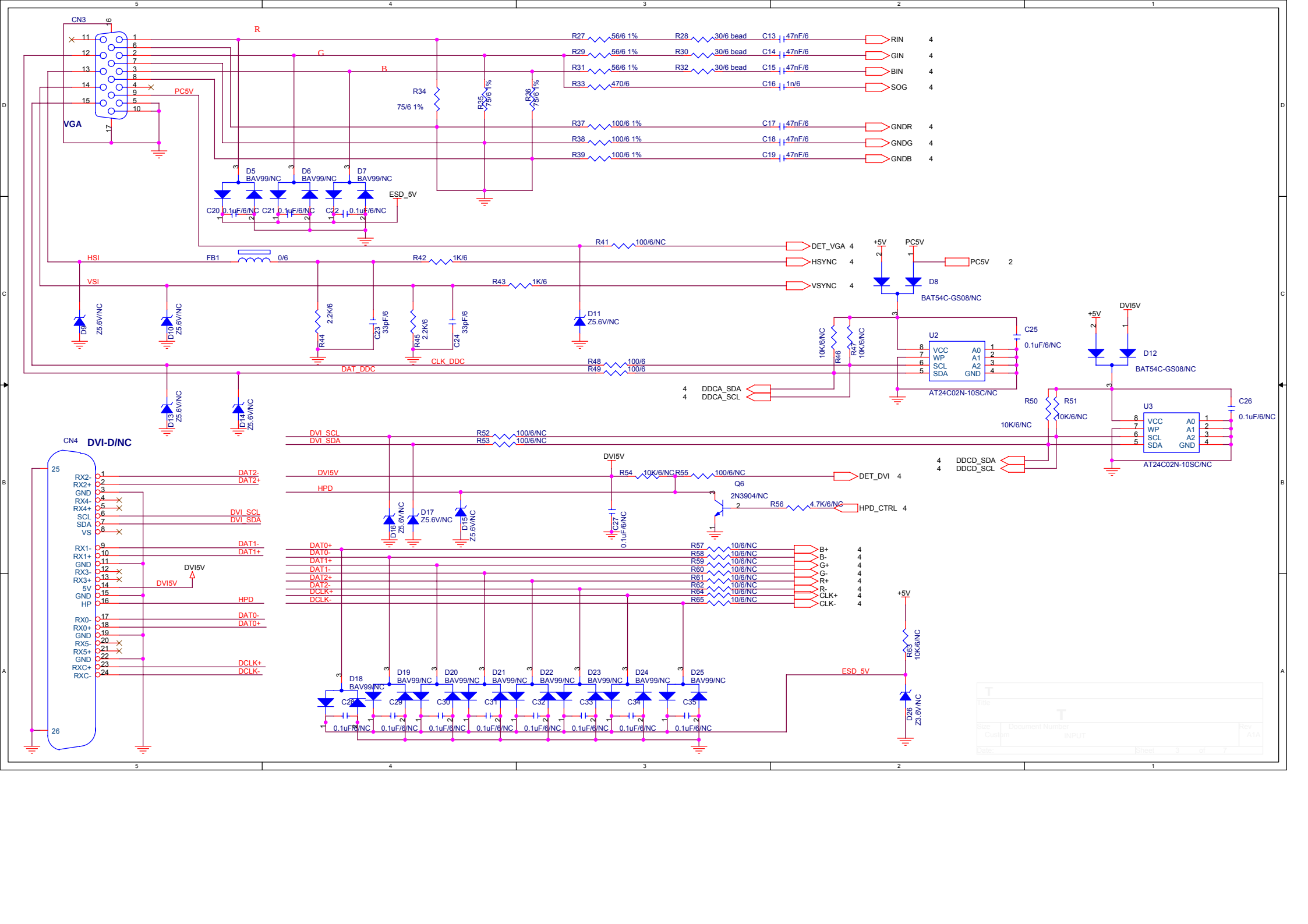
SCHEMATIC	SHEET
cover	0
B	1
POWER	2
VGA AND TMDS INPUT	3
SCALAR TSUMU58WHJ	4
Panel interface	5
Audio	6
CONTENT	7

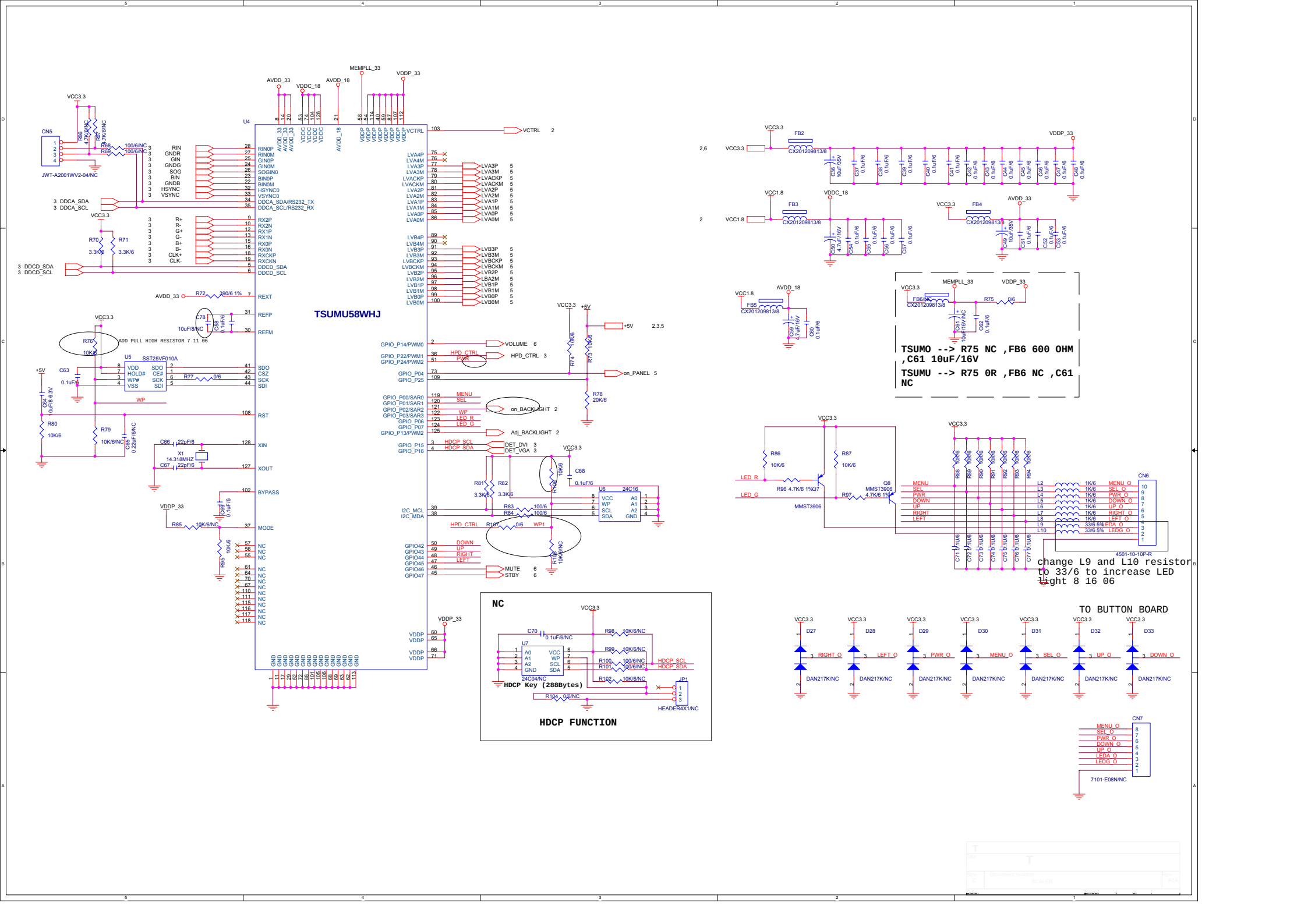
of

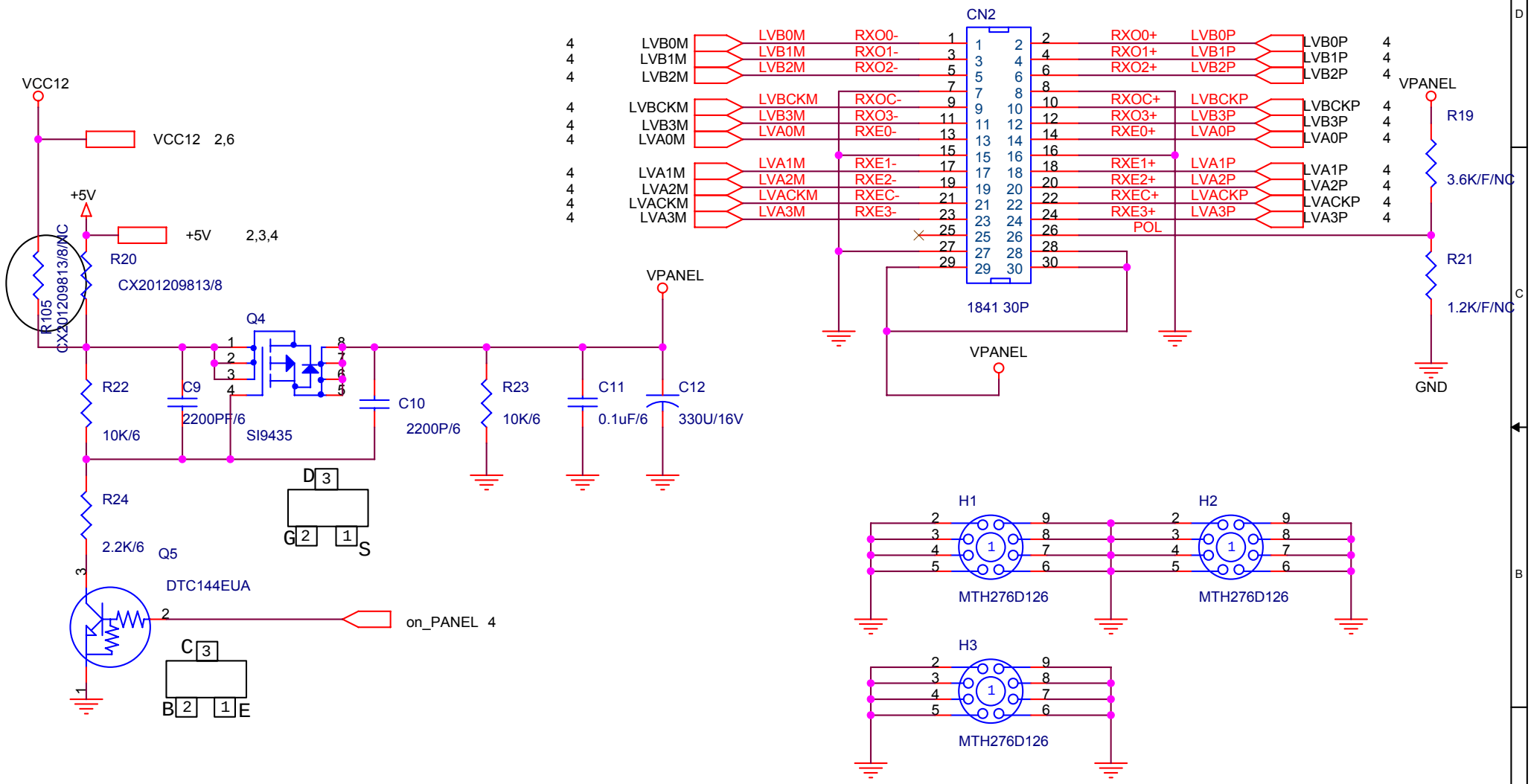
of

of


CN1 CONN 4x2-R
VCC12
VCC12 5,6
+5V
R1 0/1206
C11 0.1uF/6
VCC3.3
R2 0/6
R3 10K/6
Q1
MMST3906
R4 1K/6
on_BACKLIGHT 4
R5 10K/6
C3 0.1uF/6/NC
C4 1uF/8
R6 10K/6
R8 1K/6
R9 0/6 5%
C6 1uF/8/NC
Q2 2N3904
R11 2.2K/6
Adj_BACKLIGHT 4
VCTRL 4
R7 47/6
C5 4.7uF/16V
D1 SSM12LL
VCC1.8
R10 0/6
VCC1.8 4
Q3 2SB1132PT
R12 2K/6
D2 1N4148
R13 100/6
VCC3.3 4,6
D1 SOT-89
B C E
PC5V
3 PC5V
3,4,5 +5V
D4 SSM12LL
D3 BAT54C-GS08
L1 CX20109813/8
U3-A1
VIN VOUT ADJ/GND
LT1117/TO252/NC
U1
LT1084/TO263
R17 200/6 1%
R18 330/6 1%
C7 330u/16V
C8 330u/16V


CN3
VGA
R
G
B
PC5V
R34
75/6 1%
R35
75/6 1%
R36
75/6 1%
R27 56/6 1%
R28 30/6 bead
C13 47nF/6
RIN 4
R29 56/6 1%
R30 30/6 bead
C14 47nF/6
GIN 4
R31 56/6 1%
R32 30/6 bead
C15 47nF/6
BIN 4
R33 470/6
C16 1n/6
SOG 4
R37 100/6 1%
C17 47nF/6
GNDR 4
R38 100/6 1%
C18 47nF/6
GNDG 4
R39 100/6 1%
C19 47nF/6
GNDB 4
D5 BAV99/NC
D6 BAV99/NC
D7 BAV99/NC
ESD_5V
C20 0.1uF/6/NC
C21 0.1uF/6/NC
C22 0.1uF/6/NC
HSI
VSI
FB1
0/6
R41 100/6/NC
R42 1K/6
R43 1K/6
DET_VGA 4
HSYNC 4
VSYNC 4
+5V
PC5V
PC5V 2
D8
BAT54C-GS08/NC
D9 Z5.6V/NC
D10 Z5.6V/NC
R44 2.2K/6
C23 33pF/6
R45 2.2K/6
C24 33pF/6
D11 Z5.6V/NC
DAT_DDC
CLK_DDC
R48 100/6
R49 100/6
D13 Z5.6V/NC
D14 Z5.6V/NC
10K/6/NC
R46
R47 10K/6/NC
U2
VCC WP SCL SDA
A0 A1 A2 GND
AT24C02N-10SC/NC
C25 0.1uF/6/NC
4 DDCA_SDA
4 DDCA_SCL
DVI5V
D12
BAT54C-GS08/NC
R50
R51 10K/6/NC
10K/6/NC
U3
AT24C02N-10SC/NC
C26 0.1uF/6/NC
4 DDCD_SDA
4 DDCD_SCL
CN4 DVI-D/NC
RX2- RX2+ GND RX4- RX4+ SCL SDA VS
RX1- RX1+ GND RX3- RX3+ 5V GND HP
RX0- RX0+ GND RX5- RX5+ GND RXC+ RXC-
DAT2- DAT2+
DVI_SCL DVI_SDA
DAT1- DAT1+
DVI5V
HPD
DAT0- DAT0+
DCLK+ DCLK-
DVI_SCL
DVI_SDA
R52 100/6/NC
R53 100/6/NC
DVI5V
HPD
R54 10K/6/NC
R55 100/6/NC
Q6
2N3904/NC
R56 4.7K/6/NC
HPD_CTRL 4
DET_DVI 4
D16 Z5.6V/NC
D17 Z5.6V/NC
D15 Z5.6V/NC
C27 0.1uF/6/NC
DAT0+ DAT0- DAT1+ DAT1- DAT2+ DAT2- DCLK+ DCLK-
R57 10/6/NC
R58 10/6/NC
R59 10/6/NC
R60 10/6/NC
R61 10/6/NC
R62 10/6/NC
R64 10/6/NC
R65 10/6/NC
B+ B- G+ G- R+ R- CLK+ CLK-
D18 BAV99/NC
D19 BAV99/NC
D20 BAV99/NC
D21 BAV99/NC
D22 BAV99/NC
D23 BAV99/NC
D24 BAV99/NC
D25 BAV99/NC
C28 C29 C30 C31 C32 C33 C34 C35
0.1uF/6/NC
ESD_5V
+5V
R63 10K/6/NC
D26 Z3.6V/NC


TSUMU58WHJ
U4
CN5
JWT-A2001WV2-04/NC
U5 SST25VF010A
X1 14.318MHZ
U6 24C16
U7 24C04/NC
HDCP Key (288Bytes)
HDCP FUNCTION
NC
JP1 HEADER4X1/NC
FB2 CX201209813/8
FB3 CX201209813/8
FB4 CX201209813/8
FB5 CX201209813/8
FB6/NC CX201209813/8
TSUMO --> R75 NC ,FB6 600 OHM ,C61 10uF/16V
TSUMU --> R75 0R ,FB6 NC ,C61 NC
ADD PULL HIGH RESISTOR 7 11 06
Q8 MMST3906
MMST3906
4501-10-10P-R
change L9 and L10 resistor to 33/6 to increase LED light 8 16 06
TO BUTTON BOARD
D27 DAN217K/NC
D28 DAN217K/NC
D29 DAN217K/NC
D30 DAN217K/NC
D31 DAN217K/NC
D32 DAN217K/NC
D33 DAN217K/NC
CN7
7101-E08N/NC



Title			
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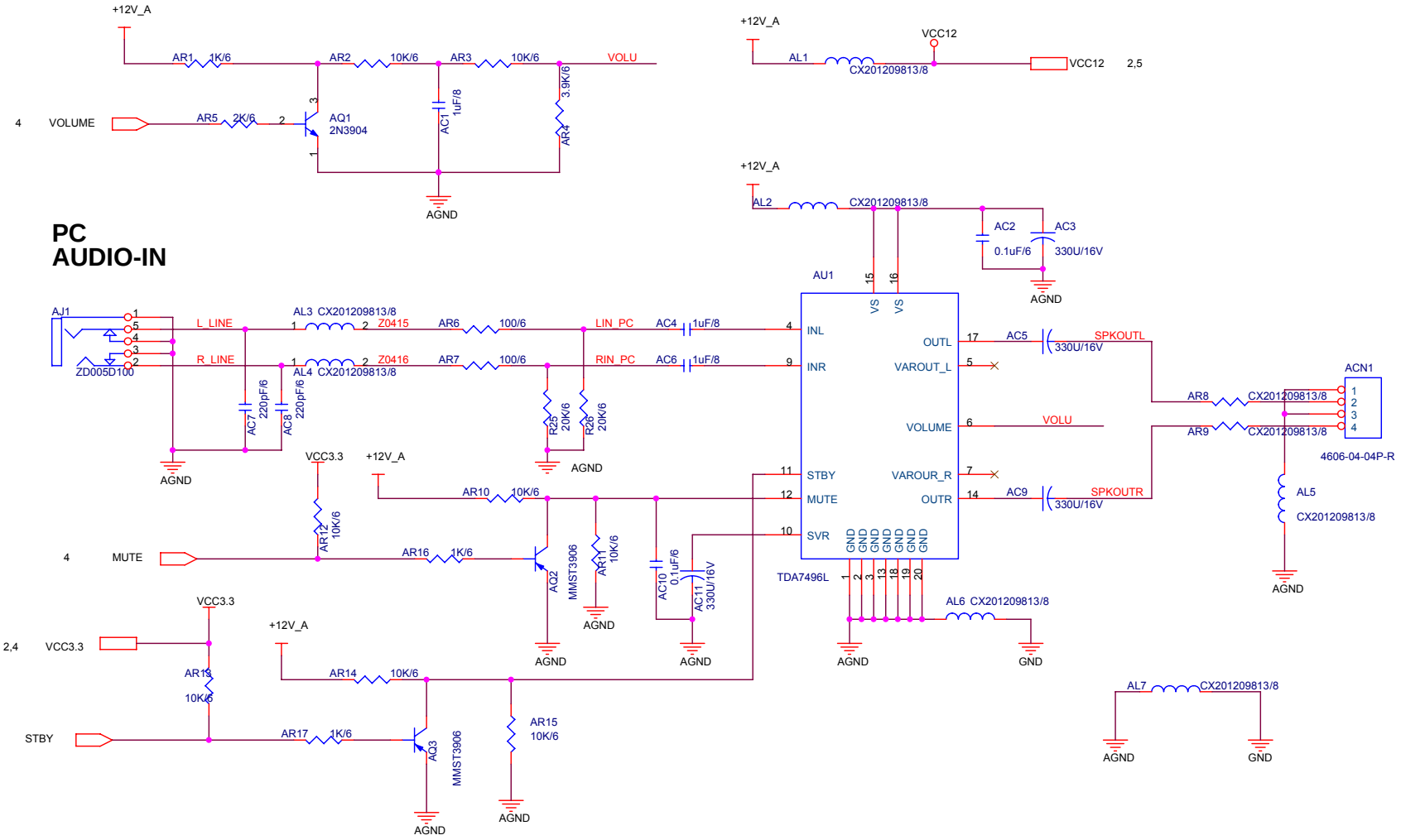
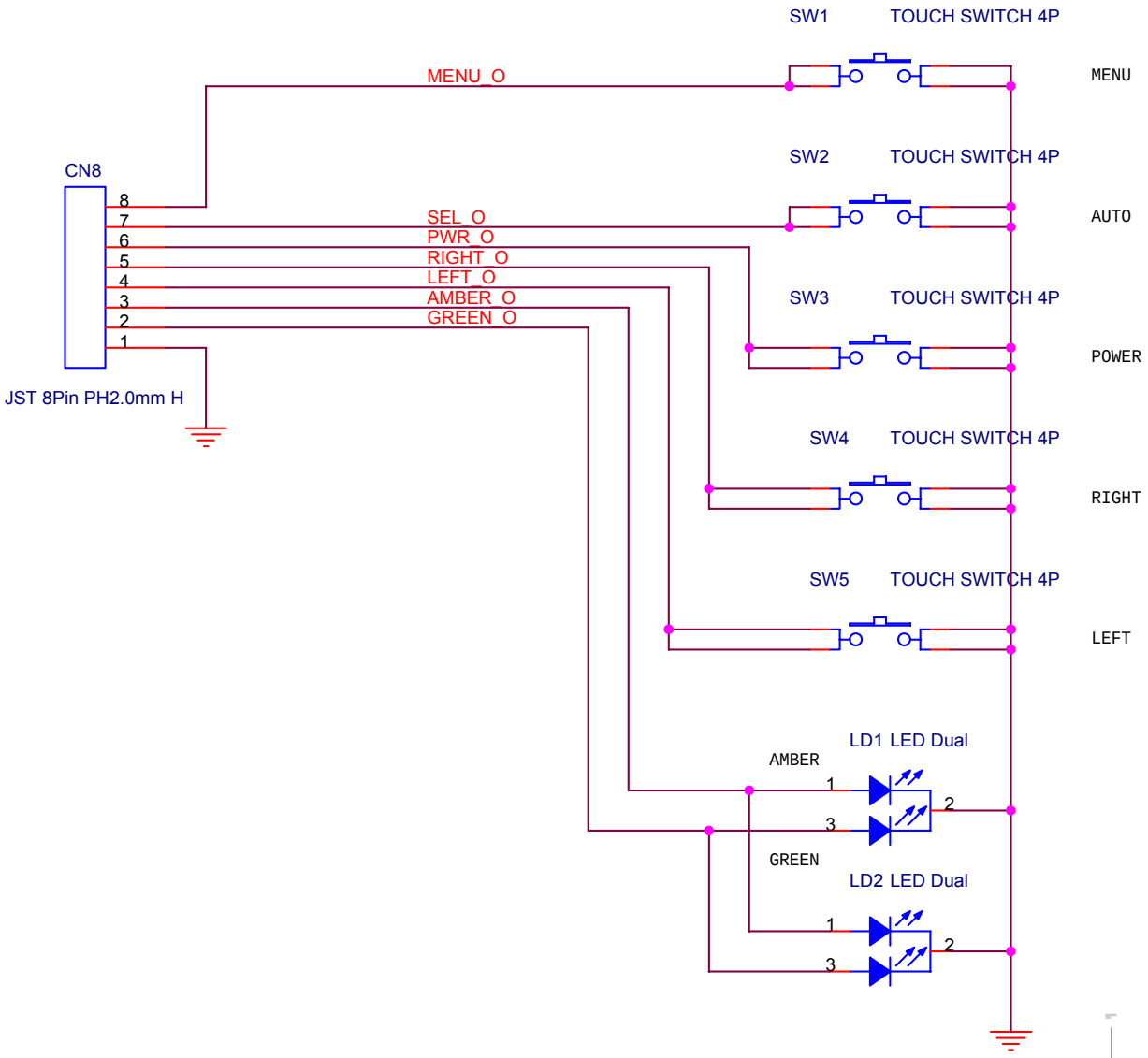
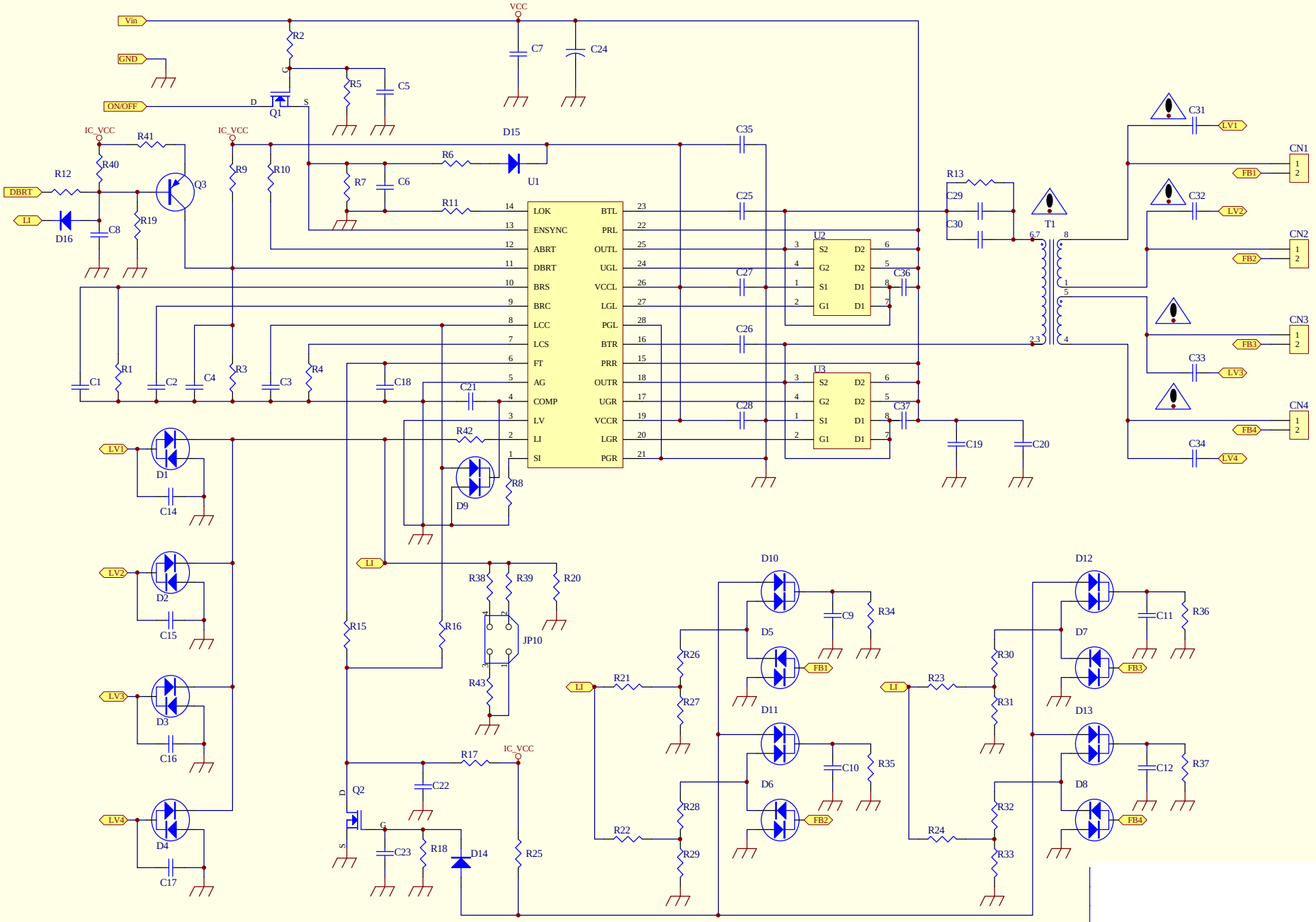

+12V_A
AR1 1K/6
AR2 10K/6
AR3 10K/6
VOLU
4 VOLUME
AR5 2K/6
AQ1 2N3904
AC1 1uF/8
3.9K/6
AR4
AGND
+12V_A
AL1
VCC12
CX201209813/8
VCC12 2,5
PC
AUDIO-IN
+12V_A
AL2 CX201209813/8
AC2 0.1uF/6
AC3 330U/16V
AGND
AU1
AJ1
L_LINE
R_LINE
ZD005D100
AL3 CX201209813/8 Z0415
AL4 CX201209813/8 Z0416
AR6 100/6
AR7 100/6
LIN_PC
RIN_PC
AC4 1uF/8
AC6 1uF/8
AC7 220pF/6
AC8 220pF/6
R25 20K/6
R26 20K/6
INL
INR
STBY
MUTE
SVR
OUTL
VAROUT_L
VOLUME
VAROUR_R
OUTR
VS
GND
TDA7496L
AC5 330U/16V
AC9 330U/16V
SPKOUTL
SPKOUTR
VOLU
AR8 CX201209813/8
AR9 CX201209813/8
ACN1
4606-04-04P-R
AL5 CX201209813/8
VCC3.3
+12V_A
AR10 10K/6
AR12 10K/6
4 MUTE
AR16 1K/6
AQ2 MMST3906
AR11 10K/6
AC10 0.1uF/6
AC11 330U/16V
AL6 CX201209813/8
2,4 VCC3.3
AR13 10K/6
AR14 10K/6
4 STBY
AR17 1K/6
AQ3 MMST3906
AR15 10K/6
AL7 CX201209813/8


SW1
TOUCH SWITCH 4P
MENU
MENU_O
SW2
TOUCH SWITCH 4P
AUTO
CN8
8
7
6
5
4
3
2
1
SEL_O
PWR_O
RIGHT_O
LEFT_O
AMBER_O
GREEN_O
SW3
TOUCH SWITCH 4P
POWER
JST 8Pin PH2.0mm H
SW4
TOUCH SWITCH 4P
RIGHT
SW5
TOUCH SWITCH 4P
LEFT
LD1 LED Dual
AMBER
1
2
3
GREEN
LD2 LED Dual
1
2
3


Vin
GND
ON/OFF
VCC
IC_VCC
DBRT
LI
LV1
LV2
LV3
LV4
FB1
FB2
FB3
FB4
U1
U2
U3
T1
Q1
Q2
Q3
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
JP10
CN1
CN2
CN3
CN4
LOK
ENSYNC
ABRT
DBRT
BRS
BRC
LCC
LCS
FT
AG
COMP
LV
LI
SI
BTL
PRL
OUTL
UGL
VCCL
LGL
PGL
BTR
PRR
OUTR
UGR
VCCR
LGR
PGR
S2
G2
S1
G1
D2
D1
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
R25
R26
R27
R28
R29
R30
R31
R32
R33
R34
R35
R36
R37
R38
R39
R40
R41
R42
R43
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
C15
C16
C17
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C22
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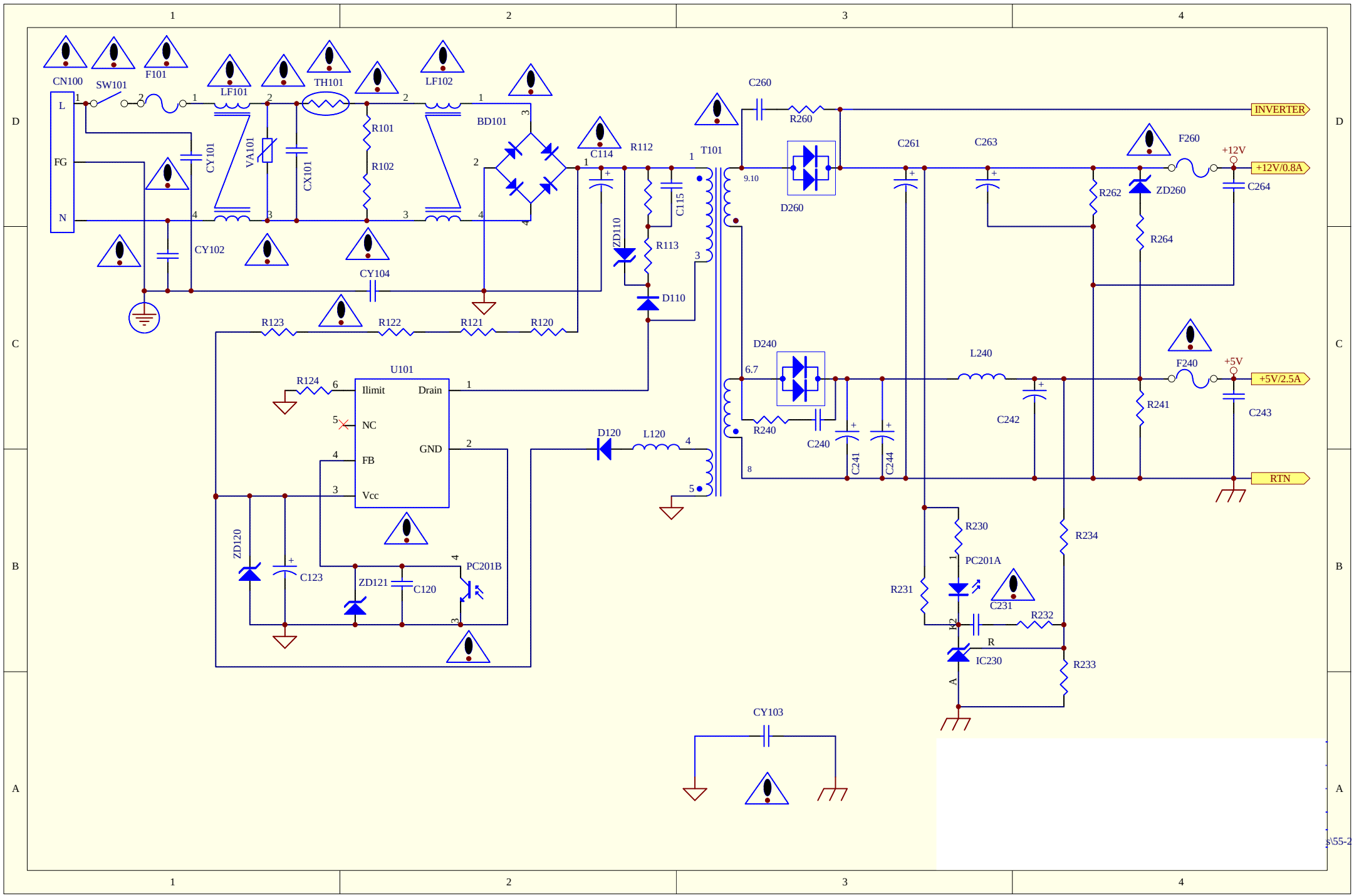
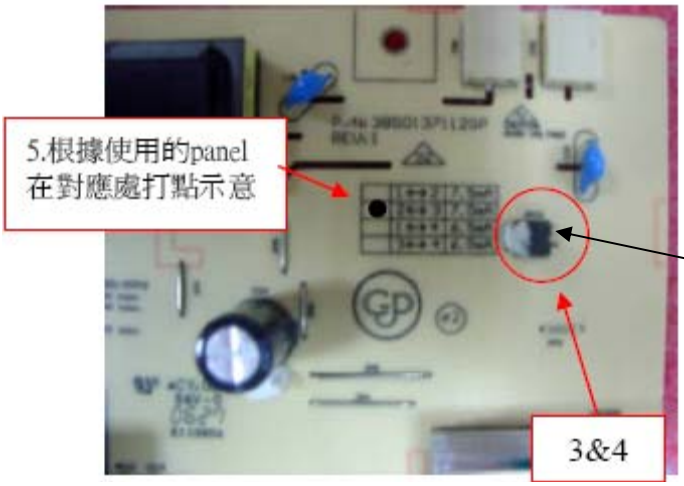
C35
C36
C37


CN100
SW101
F101
LF101
TH101
LF102
L
FG
N
CY101
VA101
CX101
R101
R102
BD101
CY102
CY104
C114
R112
T101
ZD110
R113
C115
D110
C260
R260
D260
C261
C263
F260
+12V
+12V/0.8A
C264
R262
ZD260
R264
INVERTER
R123
R122
R121
R120
U101
R124
Ilimit
Drain
NC
GND
FB
Vcc
D120
L120
D240
L240
F240
+5V
+5V/2.5A
C243
R241
C242
R240
C240
C241
C244
RTN
ZD120
C123
ZD121
C120
PC201B
R230
PC201A
R231
C231
R232
R
IC230
R233
R234
CY103

Chapter 8

Power board Current set information

P/N	Model Name	Lamp Current
AAM220EW000	LCD(TFT)22" M220EW01 V0	7.0mA
AAO220Z1008	LCD(TFT)22" M220Z1-L01	7.0mA
AAO220Z1016	LCD(TFT)22" M220Z1-L01	7.0mA



When the lamp current value is 7.0MA, the jumper should be done as the picture left show.